BRAIN RESEARCH

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DEVOTED TO FUNDAMENTAL RESEARCH
IN THE BRAIN SCIENCES

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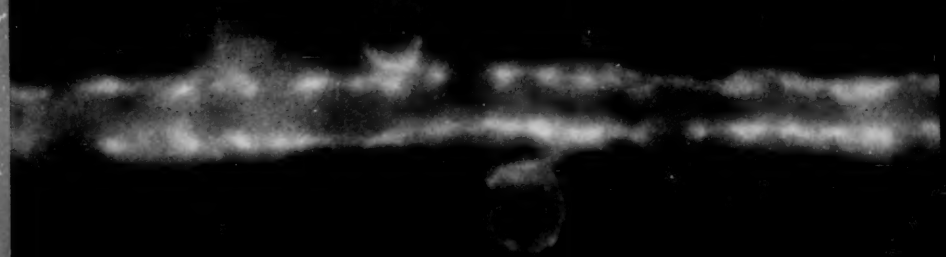
1995



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AUTHOR AND SUBJECT INDEXES 1995

(including Developmental Brain Research, Molecular Research, Brain Research Reviews and Cognitive Brain Research)

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* Please note that Volumes 41–43 of **Molecular Brain Research**, Volume 743 of **Brain Research** and Volume 5 (Issues no. 1 and 2) of **Cognitive Brain Research** were published ahead of schedule in 1996, in order to reduce publication time. The volumes remain part of the 1997 subscription year.

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Cover Figure Legend: Double-exposure illustrating the colocalization of SNAP-25 immunoreactivity (FITC) and choline transferase immunoreactivity (RITC).

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INTRODUCTION

The 1995 Cumulative Author and Subject Index comprises 10 separate indexes: the Author and Subject Indexes of **Brain Research, Developmental Brain Research, Molecular Brain Research, Brain Research Reviews** and **Cognitive Brain Research.** Each section had its own volume numbering according to the schedule below. This numbering has been used in the present indexes.

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Brain Research Vols. 669–705	**Developmental Brain Research Vols. 84–90**	**Molecular Brain Research Vols. 28–34**	**Brain Research Reviews Vols. 20–21**	**Cognitive Brain Research Vol. 2**

Please note that the above schedule differs slightly from the 1995 publication schedule:

Volumes 26 and 27 of **Molecular Brain Research** was published in 1994 and has been indexed in the 1994 index. Volumes 33 and 34 belong to the 1996 subscription year but were published in 1995 and have been indexed in the present index.

Volume 2 of **Cognitive Brain Research** has been indexed in the present index as its publication had been delayed. (Volume 2 belongs to the 1993 subscription year.)

The Editor and Publisher of Brain Research welcome any comments on the usefulness of this index as well as suggestions for improvements.

BRAIN RESEARCH
SUBJECT INDEX
1995
VOLUMES 669–705

A

Aaron, G.B., see Alloway, K.D. (691) 46
Abarbanel, J., see Fleischmann, A. (699) 130
Abbud, R. and Smith, M.S.
Do GnRH neurons express the gene for the NMDA receptor? (690) 117
Abdel-Rahman, A.A., see El-Mas, M.M. (691) 195
Abe-Dohmae, S., see Foidart, A. (701) 267
Abe, H., see Sekiguchi, M. (696) 262
Abe, K., Kogure, K. and Itoyama, Y.
Rapid and semiquantitative analysis of HSP72 and HSC73 heat shock mRNAs by mimic RT-PCR (683) 251
Abe, K., see Aoki, M. (669) 189
Abe, K., see Chu, P.-j. (673) 233
Abe, K., see Fukudo, S. (675) 98
Abe, K., see Ikegaya, Y. (671) 351
Abe, K., see Watanabe, Y. (688) 233
Abe, M., Klein, M., Steel, D.J., Thekkuveettil, A., Shapiro, E., Schwartz, J.H. and Feinmark, S.J.
Stereochemistry of the *Aplysia* neuronal 12-lipoxygenase: specific potentiation of FMRFamide action by 12(*S*)-HPETE (683) 200
Abe, T., see Tojo, H. (669) 163
Abe, Y., see Sorimachi, M. (696) 67
Abe, Y., see Tadano, T. (696) 21
Abekawa, T., Ohmori, T. and Koyama, T.
Effects of nitric oxide (NO) synthesis inhibition on the development of supersensitivity to stereotypy and locomotion stimulating effects of methamphetamine (679) 200
Ableitner, A., see Fabian, I. (697) 205
Abood, M.E., see Pugh, Jr., G. (689) 157
Abou-Donia, M.B., see Gupta, R.P. (677) 162
Abou-Donia, M.B., see Reagan, K.E. (671) 12
Abrahamsen, G.C., Berman, Y. and Carr, K.D.
Curve-shift analysis of self-stimulation in food-restricted rats: relationship between daily meal, plasma corticosterone and reward sensitization (695) 186
Absil, P., see Ball, G.F. (699) 83
Abumrad, N.N., see Hashiguchi, Y. (694) 13
Acarín, L., see Vela, J.M. (694) 287
Acevedo, L.D., Galdzicki, Z., McIntosh, A.R. and Rapoport, S.I.
Increased inward current in septal neurons from the trisomy 16 mouse, a model for Down's syndrome (701) 89
Adachi, H., see Sato, Y. (692) 66
Adam-Vizi, V., see Carvalho, C.M. (669) 234
Adamchik, J., see Nadler, V. (685) 1
Adamson, S.L., see Coceani, F. (700) 191
Adell, A. and Myers, R.D.
Selective destruction of midbrain raphe nuclei by 5,7-DHT: is brain 5-HT involved in alcohol drinking in Sprague–Dawley rats? (693) 70
Adeyemo, O.M., see Goping, G. (687) 35
Adler, M.W., see Chen, X.-H. (688) 237
Adler, S., Verbalis, J.G. and Williams, D.
Effect of rapid correction of hyponatremia on the blood–brain barrier of rats (679) 135
Advokat, C. and Rhein, F.Q.
Potentiation of morphine-induced antinociception in acute spinal rats by the NMDA antagonist dextrorphan (699) 157
Advokat, C., see Bertman, L.J. (684) 8
Afeche, S.C., see Cipolla-Neto, J. (691) 133
Aftabuddin, M., see Islam, N. (684) 206
Aghajanian, G.K., see Kogan, J.H. (689) 111
Agid, Y., see Faucheux, B.A. (691) 115
Agid, Y., see Thibaut, F. (692) 233
Ågmo, A. and Villalpando, A.
Central nervous stimulants facilitate sexual behavior in male rats with medial prefrontal cortex lesions (696) 187
Ågmo, A., Villalpando, A., Picker, Z. and Fernández, H.
Lesions of the medial prefrontal cortex and sexual behavior in the male rat (696) 177
Agnati, L.F., Tinner, B., Staines, W.A., Väänänen, K. and Fuxe, K.
On the cellular localization and distribution of carbonic anhydrase II immunoreactivity in the rat brain (676) 10
Aguilera, G., see Kapcala, L.P. (678) 207
Aguirre, J.A., Hedlund, P.B., Narváez, J.A., Bunnemann, B., Ganten, D. and Fuxe, K.
Increased vasopressor actions of intraventricular neuropeptide Y-(13–36) in spontaneously hypertensive versus normotensive Wistar–Kyoto rats. Possible relationship to increases in Y_2 receptor binding in the nucleus tractus solitarius (684) 159
Agulló, L., Baltrons, M.A. and García, A.
Calcium-dependent nitric oxide formation in glial cells (686) 160
Ahlbom, J., Fredriksson, A. and Eriksson, P.
Exposure to an organophosphate (DFP) during a defined period in neonatal life induces permanent changes in brain muscarinic receptors and behaviour in adult mice (677) 13
Ahmed, A.K.M.F., see Dong, K. (703) 231
Aicher, S.A., Kurucz, O.S., Reis, D.J. and Milner, T.A.
Nucleus tractus solitarius efferent terminals synapse on neurons in the caudal ventrolateral medulla that project to the rostral ventrolateral medulla (693) 51
Aigouy, L., see Cadet, R. (676) 189
Aijón, J., see Arévalo, R. (671) 112
Aijón, J., see Porteros, A. (689) 93
Aijón, J., see Velasco, A. (705) 315
Aitken, P.G., see Chebabo, S.R. (695) 203
Aitken, P.G., see Huang, R. (695) 195
Aizawa, S., see Tojo, H. (669) 163
Aizawa, T., see Tadano, T. (696) 21
Akaike, N., see Ishibashi, H. (695) 88
Akaike, N., see Sorimachi, M. (696) 67
Akaike, N., see Yamamoto, T. (677) 89
Akaneya, Y., Takahashi, M. and Hatanaka, H.
Selective acid vulnerability of dopaminergic neurons and its recovery by brain-derived neurotrophic factor (704) 175
Akasaka, K., Nasu, T., Katayama, T. and Murakami, N.
Development of regulation of melatonin release in pineal cells in chick embryo (692) 283
Akbarian, S., Smith, M.A. and Jones, E.G.
Editing for an AMPA receptor subunit RNA in prefrontal cortex and striatum in Alzheimer's disease, Huntington's disease and schizophrenia (699) 297
Akechi, Y., see Matsuda, H. (686) 111
Akhondzadeh, S. and Stone, T.W.
Potentiation by neurosteroids of muscimol/adenosine interactions in rat hippocampus (677) 311
Akiguchi, I., see Tomimoto, H. (672) 187
Akil, H., see Badiani, A. (673) 13
Akil, H., see Badiani, A. (678) 269
Akil, H., see Gutstein, H.B. (680) 173
Akil, H., see Mansour, A. (700) 89
Akil, H., see Trujillo, K.A. (698) 69
Akiyama, H., see Nishimura, T. (695) 137
Akiyama, H., see Tooyama, I. (691) 235
Akiyama, K., Ono, M., Kohira, I., Daigen, A., Ishihara, T. and Kuroda, S.
Long-lasting increase in protein kinase C activity in the hippocampus of amygdala-kindled rat (679) 212
Ala, T.A., see Thorne, R.G. (692) 278
Alam, Md.N., Szymusiak, R. and McGinty, D.
Local preoptic/anterior hypothalamic warming alters spontaneous and evoked neuronal activity in the magno-cellular basal forebrain (696) 221
Alameddine, L., see Wimer, R.E. (701) 293
Albers, H.E., see Huhman, K.L. (675) 333
Albers, H.E., see Johnson, A.E. (674) 153
Albers, H.E., see Whitman, D.C. (680) 73
Albonetti, M.E., see Aloisi, A.M. (699) 242
Albores, R., see Neafsey, E.J. (675) 279
Albrecht, R.F., see Pelligrino, D.A. (704) 61
Albuisson, E., see Jalenques, I. (686) 223
Alcala, J.R., see Kreisman, N.R. (693) 179
Alcantara, A.A., Srinivasan, S., Reilein, A.R. and Karr, T.L.
Antibodies directed against microtubule proteins from *Drosophila melanogaster* cross react with similar proteins in the rat brain (701) 47
Aldridge, J.W., see Jaeger, D. (694) 111
Alexianu, M., see Le, W.-D. (686) 49
Algür, Y., see Lohmann, H. (671) 275
Ali, A.M., see Gulati, A.K. (705) 118
Ali, S.F., see Freyaldenhoven, T.E. (688) 161
Alkadhi, K.A., see Salgado, D. (669) 176
Alkadhi, K.A., see Tian, L.-M. (680) 164
Alkon, D.L., see Golski, S. (676) 53
Alkon, D.L., see Luo, Y.Q. (681) 65
Allen, A.M., see MacGregor, D.P. (675) 231
Allen, A.R., see Kirby, L.G. (682) 189
Allen, C.N., see Jiang, Z.-G. (687) 125
Allen, G.V., Zhou, J. and Hopkins, D.A.
Monoamines in the parabrachial nucleus of the cardiomyopathic hamster (680) 117
Allison, G., see Zagon, I.S. (671) 105
Alloway, K.D., Johnson, M.J. and Aaron, G.B.
A comparative analysis of coordinated neuronal activity in the thalamic ventrobasal complex of rats and cats (691) 46
Allsop, D., see Kametani, F. (703) 237

Ally, A., Wilson, L.B., Nóbrega, A.C.L. and Mitchell, J.H.
Cardiovascular effects elicited by central administration of physostigmine via M_2 muscarinic receptors in conscious cats (677) 268

Aloisi, A.M., Sacerdote, P., Albonetti, M.E. and Carli, G.
Sex-related effects on behaviour and β-endorphin of different intensities of formalin pain in rats (699) 242

Alonso, J.M., see San Juan, I. (698) 209

Alonso, J.R., see Arévalo, R. (671) 112

Alonso, J.R., see Porteros, A. (689) 93

Altschuler, S.M., see Bao, X. (696) 246

Alvarez, J., see Eugenín, J. (677) 319

Alyautdin, R.N., see Kreuter, J. (674) 171

Amaya, T., see Saito, S. (673) 93

Ambrósio, A.F., see Malva, J.O. (696) 242

Ambrosio, S., see Espino, A. (669) 19

Ambrosio, S., see Espino, A. (695) 151

Amemiya, N., see Hatta, S. (704) 23

Amer-Ferrer, G. and Reinoso-Suárez, F.
Projections from the 17/18 visual area transition zone to the ipsilateral visual field representation in the cat superior colliculus (695) 283

Amici, R., see Perez, E. (684) 56

Amir, S., see Edelstein, K. (675) 135

Amir, S., see Edelstein, K. (690) 254

Amir, S., see Woodside, B. (690) 48

Ammendola, D., see De Sarro, G. (671) 131

Anastasijević, R., see Ljubisavljević, M. (673) 126

Anastasijević, R., see Ljubisavljević, M. (691) 99

Andersen, B.B., see Pakkenberg, H. (693) 201

Anderson, C.R., see Grkovic, I. (684) 127

Anderson, D.C., see Zhang, R.-L. (682) 182

Anderson, J.J., see Anderson, L.A. (691) 106

Anderson, L.A., Anderson, J.J., Chase, T.N. and Walters, J.R.
The cannabinoid agonists WIN 55,212-2 and CP 55,940 attenuate rotational behavior induced by a dopamine D_1 but not a D_2 agonist in rats with unilateral lesions of the nigrostriatal pathway (691) 106

Anderson, M.F. and Winterson, B.J.
Properties of peripherally induced persistent hindlimb flexion in rat: involvement of *N*-methyl-D-aspartate receptors and capsaicin-sensitive afferents (678) 140

Anderson, R., Diotte, M. and Miliaressis, E.
The bidirectional interaction between ventral tegmental rewarding and hindbrain aversive stimulation effects in the rat (688) 15

Ando, A., see Yasui, Y. (674) 122

Ando, R., see Tadano, T. (696) 21

Andreasen, M. and Lambert, J.D.C.
The excitability of CA1 pyramidal cell dendrites is modulated by a local Ca^{2+}-dependent K^+-conductance (698) 193

Andrew, R.D., see Watson, P.L. (700) 227

Andringa, A., see Miller, M.L. (669) 1

Anezaki, T., see Hozumi, I. (688) 143

Ang, L.-C. and Shul, D.D.
Peptidergic neurons of subcortical white matter in aging and Alzheimer's brain (674) 329

Angaut-Petit, D., Juzans, P., Molgó, J., Faille, L., Seagar, M.J., Takahashi, M. and Shoji-Kasai, Y.
Mouse motor nerve terminal immunoreactivity to synaptotagmin II during sustained quantal transmitter release (681) 213

Angelides, K.J., see Wilkemeyer, M.F. (703) 129

Angenstein, F., see Staak, S. (682) 55

Annaert, W., see Quatacker, J. (680) 36

Anneser, F., see Riedel, M.W. (671) 21

Antel, J.P., see Prabhakar, S. (672) 159

Anthes, D.L., Theriault, E. and Tator, C.H.
Characterization of axonal ultrastructural pathology following experimental spinal cord compression injury (702) 1

Anton, F., see Ebersberger, A. (676) 336

Aoki, M., Abe, K., Yoshida, T., Hattori, A., Kogure, K. and Itoyama, Y.
Early immunohistochemical changes of microtubule based motor proteins in gerbil hippocampus after transient ischemia (669) 189

Aou, S., see Oka, T. (700) 271

Appel, S.H., see Le, W.-D. (686) 49

Appenteng, K., see Grimwood, P. (686) 259

Appenteng, K., see Grimwood, P. (689) 299

Arahata, K., see Tsukahara, T. (679) 178

Arai, A., Silberg, J. and Lynch, G.
Differences in the refractory properties of two distinct inhibitory circuitries in field CA1 of the hippocampus (704) 298

Arai, I., see Ohno, M. (699) 332

Arai, R., Jacobowitz, D.M. and Nagatsu, I.
Up-regulation of calretinin in the supraoptic nucleus of the rat after chronic salt loading (673) 339

Arai, R., Karasawa, N., Nagatsu, T. and Nagatsu, I.
Exogenous L-5-hydroxytryptophan is decarboxylated in neurons of the substantia nigra pars compacta and locus coeruleus of the rat (669) 145

Arai, Y., see Tadano, T. (696) 21

Araki, T., Kato, H., Fujiwara, T. and Itoyama, Y.
Age-related changes in bindings of second messengers in the rat brain (704) 227

Araki, T., Kato, M. and Kobayashi, T.
Limbic seizures originating in the olfactory bulb: an electro-behavioral and glucose metabolism study (693) 207

Araki, T., see Kato, H. (679) 1

Araki, T., see Kato, H. (694) 85

Arango, V., Underwood, M.D., Gubbi, A.V. and Mann, J.J.
Localized alterations in pre- and postsynaptic serotonin binding sites in the ventrolateral prefrontal cortex of suicide victims (688) 121

Arango, V., see Fontenot, M.B. (705) 105

Aravagiri, M., see See, R.E. (704) 202

Arbuthnott, G.W., see Furmidge, L.J. (679) 241

Archer, S., see Glick, S.D. (681) 147

Ardid, D., Jourdan, D., Mestre, C., Villanueva, L., Le Bars, D. and Eschalier, A.
Involvement of bulbospinal pathways in the antinociceptive effect of clomipramine in the rat (695) 253

Arendash, G.W., Sengstock, G.J., Sanberg, P.R. and Kem, W.R.
Improved learning and memory in aged rats with chronic administration of the nicotinic receptor agonist GTS-21 (674) 252

Arendash, G.W., see Socci, D.J. (693) 88

Arendt, J., see Deacon, S. (688) 77

Arévalo, R., Alonso, J.R., Porteros, A., Briñón, J.G., Crespo, C., Lara, J. and Aijón, J.
Calretinin-like immunoreactivity in the optic tectum of the tench (*Tinca tinca* L.) (671) 112

Arévalo, R., see Porteros, A. (689) 93

Arezzo, J.C., see Steinschneider, M. (674) 147

Ariga, K., see Mori, N. (703) 184

Ariga, K., see Tsunoda, K. (691) 18

Arilla, E., see Boyano-Adánez, M.C. (688) 1

Arimura, A., see Palkovits, M. (699) 116

Armstead, W.M.
Relationship between opioids and activation of phospholipase C and protein kinase C in brain injury induced pial artery vasoconstriction (689) 183

Armstead, W.M., see Devine, J.O. (675) 257

Armstrong, D.L., see Gannon, R.L. (694) 264

Armstrong, D.M., see Yasuda, R.P. (678) 161

Arnauld, E., see Henry, C. (685) 179

Arneric, S.P., see Bannon, A.W. (678) 244

Arnold, A.P., see Lubischer, J.L. (694) 61

Arnold, F.J., see Schuster, D.I. (670) 14

Arsaut, J., see Henry, C. (685) 179

Arsenijevic, Y., Dreifuss, J.J., Vallet, P., Marguerat, A. and Tribollet, E.
Reduced binding of oxytocin in the rat brain during aging (698) 275

Arshavsky, Y.I., see Panchin, Y.V. (669) 315

Arvanov, V.L., Holmes, K.H., Keele, N.B. and Shinnick-Gallagher, P.
The functional role of metabotropic glutamate receptors in epileptiform activity induced by 4-aminopyridine in the rat amygdala slice (669) 140

Asahara, T., see Nishimura, Y. (702) 213

Asakuno, K., Isono, M., Wakabayashi, Y., Mori, T., Hori, S., Kohno, K. and Kuwano, M.
The exogenous control of transfected c-*fos* gene expression and angiogenesis in cells implanted into the rat brain (702) 23

Asakura, K., see Kanemasa, T. (702) 207

Asao, T., see Tadano, T. (696) 21

Asari, T., see Kubo, T. (686) 1

Aschner, M., Mullaney, K.J., Wagoner Jr., D.E., Lash, L.H. and Kimelberg, H.K.
Adenosine modulates methylmercuric chloride (MeHgCl)-induced D-aspartate release from neonatal rat primary astrocyte cultures (689) 1

Aschner, M., see Rising, L. (678) 91

Ashe, J.H., see Metherate, R. (699) 221

Asin, K.E., see Wirtshafter, D. (670) 205
Aston-Jones, G., see Chen, S. (674) 107
Aswani, S.P., see Emmett, C.J. (673) 199
Attwell, P.J.E., Kaura, S., Sigala, G., Bradford, H.F., Croucher, M.J., Jane, D.E. and Watkins, J.C.
Blockade of both epileptogenesis and glutamate release by (1S,3S)-ACPD, a presynaptic ᵒlutamate receptor agonist (698) 155
Atwood, H.L., see Cooper, R.L. (703) 214
Avanzini, G., see Franceschetti, S. (696) 127
Avdulov, N.A., see Wood, W.G. (683) 36
Avendaño, C., Roda, J.M., Carceller, F. and Díez-Tejedor, E.
Morphometric study of focal cerebral ischemia in rats: a stereological evaluation (673) 83
Avila, E., see Parent, M.B. (676) 235
Ayyagari, V., Harrell, L.E., Parsons, D.S. and Kolasa, K.
The effect of cholinergic denervation and hippocampal sympathetic ingrowth on the internalization of muscarinic receptors in rat hippocampus (676) 394
Ayyagari, V., see Harrell, L.E. (676) 386
Azcurra, J.M., see Ibarra, G.R. (705) 39
Azmitia, E.C., Rubinstein, V.J., Strafaci, J.A., Rios, J.C. and Whitaker-Azmitia, P.M.
5-HT_{1A} agonist and dexamethasone reversal of para-chloroamphetamine induced loss of MAP-2 and synaptophysin immunoreactivity in adult rat brain (677) 181
Azmitia, E.C., see Kramer, H.K. (680) 1
Azmitia, E.C., see Poblete, J.C. (680) 9
Azmitia, E.C., see Ueda, S. (673) 325
Azzaro, A.J., see Cratty, M.S. (675) 297
Azzaroni, A. and Parmeggiani, P.L.
Postural and sympathetic influences on brain cooling during the ultradian wake–sleep cycle (671) 78
Azzazy, H.M.E., Hong, K., Wu, M.-C. and Gross, G.W.
Interaction of cationic liposomes with cells of electrically active neuronal networks in culture (695) 231

B

Baars, J.-M., see Isaacson, R.L. (689) 79
Baba, H., see Shimizu, T. (691) 92
Baba, K., see Ikeda, M. (690) 225
Baba, K., see Nakagawa, H. (690) 236
Babagbemi, T.O., see Huhman, K.L. (675) 333
Babcock, A.M., Liu, H., Paden, C.M., Edmo, D., Popper, P. and Micevych, P.E.
Transient cerebral ischemia decreases calcium/calmodulin-dependent protein kinase II immunoreactivity, but not mRNA levels in the gerbil hippocampus (705) 307
Bach, F.W. and Yaksh, T.L.
Release into ventriculo-cisternal perfusate of β-endorphin- and Met-enkephalin-immunoreactivity: effects of electrical stimulation in the arcuate nucleus and periaqueductal gray of the rat (690) 167
Bach, F.W. and Yaksh, T.L.
Release of β-endorphin immunoreactivity into ventriculo-cisternal perfusate by lumbar intrathecal capsaicin in the rat (701) 192
Bachar, C., Haver, E., Kadar, T., Levy, A. and Lichtstein, D.
Possible involvement of atrial natriuretic peptides in olfaction (682) 231
Bachoo, M., see Zhang, C. (683) 59
Bacic, G., see Liu, K.J. (685) 91
Bäck, N., see Vanhatalo, S. (669) 275
Bacon, S.J., see Gabbott, P.L.A. (698) 253
Bacon, S.J., see Gabbott, P.L.A. (699) 321
Badiani, A., Browman, K.E. and Robinson, T.E.
Influence of novel versus home environments on sensitization to the psychomotor stimulant effects of cocaine and amphetamine (674) 291
Badiani, A., Leone, P. and Stewart, J.
Intra-VTA injections of the mu-opioid antagonist CTOP enhance locomotor activity (690) 112
Badiani, A., Leone, P., Noel, M.B. and Stewart, J.
Ventral tegmental area opioid mechanisms and modulation of ingestive behavior (670) 264
Badiani, A., Morano, M.I., Akil, H. and Robinson, T.E.
Circulating adrenal hormones are not necessary for the development of sensitization to the psychomotor activating effects of amphetamine (Brain Res. 673 (1995) 13–24) (BRES 10891) (678) 269
Badiani, A., Morano, M.I., Akil, H. and Robinson, T.E.
Circulating adrenal hormones are not necessary for the development of sensitization to the psychomotor activating effects of amphetamine (673) 13
Bae, M.-A., see Cho, H.-J. (695) 96
Bahng, H.R., see Heo, J.H. (671) 321
Bahr, B.A., see Bednarski, E. (694) 147
Baird, A., see Gonzalez, A.M. (701) 201
Baker, H., see Calingasan, N.Y. (677) 50
Bakkum, B.W., see Benevento, L.A. (689) 172
Bakowska, J.C. and Morrell, J.I.
Quantitative autoradiographic analysis of D_1 and D_2 dopamine receptors in rat brain in early and late pregnancy (703) 191
Balaban, C.D., see Yates, B.J. (689) 197
Balasubramaniam, A., see Chance, W.T. (691) 180
Ball, G.F., Absil, P. and Balthazart, J.
Assessment of volumetric sex differences in the song control nuclei HVC and RA in zebra finches by immunocytochemistry for methionine enkephalin and vasoactive intestinal polypeptide (699) 83
Ball, G.F., see Moffatt, C.A. (677) 82
Ball, W.A., see Ross, R.J. (701) 129
Balthazart, J., see Ball, G.F. (699) 83
Balthazart, J., see Foidart, A. (701) 267
Baltrons, M.A., see Agulló, L. (686) 160
Banay-Schwartz, M., see Benuck, M. (678) 259
Banerjee, S.P., see Lidsky, T.I. (686) 104
Banik, N.L., see Li, Z. (697) 112
Banks, W.A., Wustrow, D.J., Cody, W.L., Davis, M.D. and Kastin, A.J.
Permeability of the blood–brain barrier to the neurotensin$_{8-13}$ analog NT1 (695) 59
Banks, W.A., see Maness, L.M. (700) 83
Bannon, A.W., Gunther, K.L., Decker, M.W. and Arneric, S.P.
The influence of Bay K 8644 treatment on (±)-epibatidine-induced analgesia (678) 244
Bannon, M.J., Brownschidle, L.A., Tian, Y., Whitty, C.J., Poosch, M.S., D'sa, C. and Moody, C.A.
Neurokinin-3 receptors modulate dopamine cell function and alter the effects of 6-hydroxydopamine (695) 19
Bao, X., Wiedner, E.B. and Altschuler, S.M.
Transsynaptic localization of pharyngeal premotor neurons in rat (696) 246
Baraban, S.C., Stornetta, R.L. and Guyenet, P.G.
Effects of morphine and morphine withdrawal on adrenergic neurons of the rat rostral ventrolateral medulla (676) 245
Barbanel, G., see Lee, S. (705) 136
Barberis, C., see Johnson, A.E. (674) 153
Barbier, P., see Maggio, R. (679) 184
Bardo, M.T., see Pierce, R.C. (688) 21
Bardoni, R., Magherini, P.C. and Belluzzi, O.
Sodium current in periglomerular cells of frog olfactory bulb in vitro (703) 19
Barger, S.W., Van Eldik, L.J. and Mattson, M.P.
S100β protects hippocampal neurons from damage induced by glucose deprivation (677) 167
Barker, J.E., see Clark, M.B. (700) 308
Barman, S.M., Orer, H.S. and Gebber, G.L.
A 10-Hz rhythm reflects the organization of a brainstem network that specifically governs sympathetic nerve discharge (671) 345
Barman, S.M., see Zhong, S. (670) 329
Barnett, D.W., see Lippmann, B.J. (686) 29
Barnett, N.L. and Osborne, N.N.
Redistribution of GABA immunoreactivity following central retinal artery occlusion (677) 337
Barnstable, C.J., see Zhao, S. (677) 300
Barrantes, G.E., Rogers, A.T., Lindstrom, J. and Wonnacott, S.
α-Bungarotoxin binding sites in rat hippocampal and cortical cultures: initial characterisation, colocalisation with α7 subunits and up-regulation by chronic nicotine treatment (672) 228
Barré, H., see Montaron, A. (702) 49
Barrère, B., see Piérard, C. (693) 251
Barro, M., Ruiz, F. and Hurlé, M.A.
κ-Opioid receptor mediated antinociception in rats is dependent on the functional state of dihydropyridine-sensitive calcium channels (672) 148
Barroso, N., see Rodriguez, M. (703) 201
Barry, P.H., see Fatima-Shad, K. (704) 246

Barth, A., see Newell, D.W. (675) 38
Barth, D.S., Goldberg, N., Brett, B. and Di, S.
The spatiotemporal organization of auditory, visual, and auditory-visual evoked potentials in rat cortex (678) 177
Barth, D.S., see MacDonald, K.D. (694) 1
Barthélémy, L., see Mialon, P. (676) 352
Bartholdi, D. and Schwab, M.E.
Methylprednisolone inhibits early inflammatory processes but not ischemic cell death after experimental spinal cord lesion in the rat (672) 177
Bartol, I., see Cipolla-Neto, J. (691) 133
Barton, C., Lin, L., York, D.A. and Bray, G.A.
Differential effects of enterostatin, galanin and opioids on high-fat diet consumption (702) 55
Bartrons, R., see Espino, A. (669) 19
Bartrons, R., see Espino, A. (695) 151
Bartus, R.T., see Sanovich, E. (705) 125
Basbaum, A.I., see Matos, F.F. (693) 187
Basile, A.S., see Yurdaydin, C. (679) 42
Bass, R., see Shohami, E. (674) 55
Batini, C., see Fadlallah, N. (675) 55
Batini, C., see Jones, N. (697) 216
Battaglia, A.A., Beltramo, M., Thibault, J., Krieger, M. and Calas, A.
A confocal approach to the morphofunctional characterization of the transient tyrosine hydroxylase system in the rat suprachiasmatic nucleus (696) 7
Battistin, L., see Freo, U. (677) 213
Baubet, V., see Giaume, M. (675) 121
Baudhuin, P., see Maloteaux, J.-M. (687) 155
Baudry, M., see Bernard, J. (671) 195
Bauer, R., Brosch, M. and Eckhorn, R.
Different rules of spatial summation from beyond the receptive field for spike rates and oscillation amplitudes in cat visual cortex (669) 291
Bäurle, J., see Grüsser-Cornehls, U. (703) 51
Baxendale, R.H., see Nicol, D.J. (684) 230
Baxter, M.G., see Tobin, J.R. (694) 177
Baylis, H.A., see Hosie, A.M. (693) 257
Beach, T.G., see Parent, A. (674) 347
Beattie, D.T., see Escott, K.J. (669) 93
Beaudet, L.N., see Ohara, S. (705) 325
Beaudu, C., see Bluthé, R.-M. (677) 171
Beck, M.M., see Teruyama, R. (697) 169
Becker, A., Grecksch, G. and Schröder, H.
N^{ω}-nitro-L-arginine methyl ester interferes with pentylenetetrazol-induced kindling and has no effect on changes in glutamate binding (688) 230
Becker, D.P., see Kawamata, T. (674) 196
Beckman, M., see Bileviciute, I. (704) 71
Becquet, D., see Gerin, C. (704) 191
Bédard, P.J., see Calon, F. (680) 43
Bederson, J., see Vickers, J.C. (671) 175
Bedingfield, J.B., see Karler, R. (671) 100
Bednarski, E., Vanderklish, P., Gall, C., Saido, T.C., Bahr, B.A. and Lynch, G.
Translational suppression of calpain I reduces NMDA-induced spectrin proteolysis and pathophysiology in cultured hippocampal slices (694) 147
Behan, D.P., Maciejewski, D., Chalmers, D. and De Souza, E.B.
Corticotropin releasing factor binding protein (CRF-BP) is expressed in neuronal and astrocytic cells (698) 259
Behbehani, M.M., see Da Costa Gomez, T.M. (689) 21
Behnisch, T., see Staak, S. (682) 55
Beit-Yannai, E., see Nadler, V. (685) 1
Beitz, A.J., see Kus, L. (683) 270
Beitz, A.J., see Williams, F.G. (690) 207
Beju, D., see Schechter, R. (670) 1
Belayev, L., Busto, R., Watson, B.D. and Ginsberg, M.D.
Post-ischemic administration of HU-211, a novel non-competitive NMDA antagonist, protects against blood–brain barrier disruption in photochemical cortical infarction in rats: a quantitative study (702) 266
Bele, S., Kiessling, M. and Gass, P.
Embryonic cortical neurons differentiate into various types of interneurons when heterotopically transplanted into the adult rat brain (704) 210
Bell, H.E., see LaManna, J.C. (687) 175
Belluzzi, O., see Bardoni, R. (703) 19
Belmaker, R.H., see Fleischmann, A. (699) 130
Beltramo, M., see Battaglia, A.A. (696) 7
Beltz, T.G., see Menani, J.V. (695) 250
Ben-Hur, T., Confortti, N., Itzik, A. and Weidenfeld, J.
Effects of HSV-1, a neurotropic virus, on the hypothalamic-pituitary-adrenocortical axis in rats (702) 17
Benardo, L.S., see Ling, D.S.F. (670) 142
Benarroch, E.E., Smithson, I.L. and Low, P.A.
Localization and possible interactions of catecholamine-and NADPH-diaphorase neurons in human medullary autonomic regions (684) 215
Bencsics, A., Elenkov, I.J. and Vizi, E.S.
α_{2}-, α_{2A}-, $\alpha_{2B/2C}$-Adrenoceptor subtype antagonists prevent lipopolysaccharide-induced fever response in rabbits (705) 302
Benedek, G., see Katoh, Y.Y. (669) 298
Benevento, L.A., Bakkum, B.W. and Cohen, R.S.
Gamma-aminobutyric acid and somatostatin immunoreactivity in the visual cortex of normal and dark-reared rats (689) 172
Bengelloun, W., see Talmi, M. (704) 97
Benicourt, C., see Lockhart, B.P. (675) 110
Beninger, R.J., see Connop, B.P. (676) 124
Benington, J.H. and Heller, H.C.
Monoaminergic and cholinergic modulation of REM-sleep timing in rats (681) 141
Benington, J.H., Kodali, S.K. and Heller, H.C.
Stimulation of A_1 adenosine receptors mimics the electroencephalographic effects of sleep deprivation (692) 79
Benington, J.H., Woudenberg, M.C. and Heller, H.C.
Apamin, a selective SK potassium channel blocker, suppresses REM sleep without a compensatory rebound (692) 86
Bennett, B.A., Rusyniak, D.E. and Hollingsworth, C.K.
HIV-1 gp120-induced neurotoxicity to midbrain dopamine cultures (705) 168
Bennett, B.A., see Wichems, C.H. (695) 10
Bennett-Clarke, C.A., Lane, R.D. and Rhoades, R.W.
Fenfluramine depletes serotonin from the developing cortex and alters thalamocortical organization (702) 255
Bennett, M.R., see Nichol, K.A. (697) 1
Benoist, J.-M., see Berkley, K.J. (695) 92
Benrabh, H., Bourre, J.-M. and Lefauconnier, J.-M.
Taurine transport at the blood-brain barrier: an in vivo brain perfusion study (692) 57
Bentivoglio, M., see Cevolani, D. (689) 163
Bentley, G.N. and Gent, J.P.
Neurokinin actions on substantia gelatinosa neurones in an adult longitudinal spinal cord preparation (673) 101
Benuck, M., Banay-Schwartz, M., DeGuzman, T. and Lajtha, A.
Effect of food deprivation on glutathione and amino acid levels in brain and liver of young and aged rats (678) 259
Benzing, W.C. and Mufson, E.J.
Increased number of NADPH-d-positive neurons within the substantia innominata in Alzheimer's disease (670) 351
Béracochéa, D.J., Micheau, J. and Jaffard, R.
Alteration of cortical and hippocampal cholinergic activities following lesion of the mammillary bodies in mice (670) 53
Bergman, D.A., see Coulter, C.L. (690) 217
Bergmann, B.M., see Feng, P.-F. (703) 93
Berkley, K.J., Benoist, J.-M., Gautron, M. and Guilbaud, G.
Responses of neurons in the caudal intralaminar thalamic complex of the rat to stimulation of the uterus, vagina, cervix, colon and skin (695) 92
Berkley, K.J., see Hubscher, C.H. (702) 251
Berkovic, S.F., see Gundlach, A.L. (672) 214
Berman, Y., Devi, L. and Carr, K.D.
Effects of streptozotocin-induced diabetes on prodynorphin-derived peptides in rat brain regions (685) 129
Berman, Y., see Abrahamsen, G.C. (695) 186
Bernabeu, R., Izquierdo, I., Cammarota, M., Jerusalinsky, D. and Medina, J.H.
Learning-specific, time-dependent increase in [^{3}H]phorbol dibutyrate binding to protein kinase C in selected regions of the rat brain (685) 163
Bernard, J., Chabot, C., Gagné, J., Baudry, M. and Massicotte, G.
Melittin increases AMPA receptor affinity in rat brain synaptoneurosomes (671) 195
Bernard, M., Donohue, S.J. and Klein, D.C.
Human hydroxyindole-*O*-methyltransferase in pineal gland, retina and Y79 retinoblastoma cells (696) 37
Bernardi, G., see Rossini, P.M. (676) 314
Bernstein, I.L., see Swank, M.W. (673) 251
Bernstein, M.A. and Welch, S.P.
Alterations in L-type calcium channels in the brain and spinal cord of acutely treated and morphine-tolerant mice (696) 83
Bernton, E., see Clapp, L.E. (693) 101
Bérod, A., see Nicot, A. (702) 279
Berrebi, A.S., see Mack, C.M. (697) 152
Berry, M., see Gonzalez, A.M. (701) 201

Bertman, L.J. and Advokat, C.
Comparison of the antinociceptive and antispastic action of (−)-baclofen after systemic and intrathecal administration in intact, acute and chronic spinal rats (684) 8
Bertolotto, A., Manzardo, E., Iudicello, M., Lovisetto, C. and Riccio, A.
Disappearance of the *Vicia villosa*-positivity from the perineuronal net containing chondroitin proteoglycan after chondroitinase digestion (673) 344
Bertrand, A. and Weil-Fugazza, J.
Sympathectomy does not modify the levels of dopa or dopamine in the rat dorsal root ganglion (681) 201
Besharse, J.C., see Green, C.B. (677) 283
Beske, O. and Gorenstein, C.
Fate of lysosomes transported to the dendrites by a colchicine-induced mechanism (669) 125
Besson, J.-M., see Buritova, J. (674) 211
Besson, J.-M., see Chapman, V. (697) 258
Besson, J.-M., see Honoré, P. (705) 91
Betto, R., see Dettbarn, C. (669) 79
Bhagwat, S.V., see Bhamre, S. (672) 276
Bhamre, S., Bhagwat, S.V., Shankar, S.K., Boyd, M.R. and Ravindranath, V.
Flavin-containing monooxygenase mediated metabolism of psychoactive drugs by human brain microsomes (672) 276
Bhargava, H.N., House, R.V., Thorat, S.N. and Thomas, P.T.
Effects of naltrexone on morphine-induced tolerance and physical dependence and changes in cellular immune function in mice (690) 121
Bickford, P.C. and Wear, K.D.
Restoration of sensory gating of auditory evoked response by nicotine in fimbria-fornix lesioned rats (705) 235
Bickford, P.C., see Gould, T.J. (684) 150
Bicknell, R.J., see Condé, G.L. (672) 68
Bidard, J.-N., see Nicot, A. (702) 279
Biegel, D., Spencer, D.D. and Pachter, J.S.
Isolation and culture of human brain microvessel endothelial cells for the study of blood–brain barrier properties in vitro (692) 183
Biegon, A., see Nadler, V. (685) 1
Biello, S.M.
Enhanced photic phase shifting after treatment with antiserum to neuropeptide Y (673) 25
Biggs, C.S., Fowler, L.J., Whitton, P.S. and Starr, M.S.
Impulse-dependent and tetrodotoxin-sensitive release of GABA in the rat's substantia nigra measured by microdialysis (684) 172
Bigl, V., see Härtig, W. (692) 215
Bigl, V., see Härtig, W. (698) 265
Bigl, V., see Roßner, S. (696) 165
Bileviciute, I., Stenfors, C., Theodorsson, E., Beckman, M. and Lundeberg, T.
Significant changes in neuropeptide concentrations in the brain of normotensive (WKY) and spontaneously hypertensive (SHR) rats following knee joint monoarthritis (704) 71
Bing, C., see Frankish, H.M. (694) 139
Birkle, D.L., see Cratty, M.S. (675) 297
Bíró, É., see Sarnyai, Z. (675) 89
Bishai, I., see Coceani, F. (700) 191
Bitterman, N. and Schaal, S.
Caffeine attenuates CNS oxygen toxicity in rats (696) 250
Bizzini, B., see Herreros, J. (699) 165
Bjellerup, P., see Stenfors, C. (698) 39
Björklund, A., see Nikkhah, G. (687) 22
Bjørkum, A.A., Bjorvatn, B., Neckelmann, D. and Ursin, R.
Sleep effects following intrathecal administration of the 5-HT_{1A} agonist 8-OH-DPAT and the NMDA antagonist AP-5 in rats (692) 251
Bjorvatn, B., see Bjørkum, A.A. (692) 251
Blake, D.R., see Kidd, B.L. (688) 72
Blanchet, P.J., see Calon, F. (680) 43
Blandini, F. and Greenamyre, J.T.
Effect of subthalamic nucleus lesion on mitochondrial enzyme activity in rat basal ganglia (669) 59
Blank, J.L., see Korytko, A.I. (685) 135
Blasi, J., see Herreros, J. (699) 165
Blecher, F., see Hanesch, U. (700) 279
Blendy, J.A., Schmid, W., Kiessling, M., Schütz, G. and Gass, P.
Effects of kainic acid induced seizures on immediate early gene expression in mice with a targeted mutation of the CREB gene (681) 8
Blengio, M., see Ghi, P. (690) 104
Blessing, W.W., see Gieroba, Z.J. (675) 329
Blessing, W.W., see Gieroba, Z.J. (683) 43
Block, F., Schmitt, W. and Schwarz, M.
The antioxidant LY 231617 ameliorates functional and morphological sequelae induced by global ischemia in rats (694) 308
Blokland, A., see Prickaerts, J. (674) 142
Blomgren, K., Kawashima, S., Saido, T.C., Karlsson, J.-O., Elmered, A. and Hagberg, H.
Fodrin degradation and subcellular distribution of calpains after neonatal rat cerebral hypoxic-ischemia (684) 143
Blomgren, K., McRae, A., Bona, E., Saido, T.C., Karlsson, J.-O. and Hagberg, H.
Degradation of fodrin and MAP 2 after neonatal cerebral hypoxic-ischemia (684) 136
Bloom, M.L., see Clark, M.B. (700) 308
Bloom, S.R., see Lambert, P.D. (670) 59
Blumberg, M.S., Schalk, S.L. and Sokoloff, G.
Pontine and basal forebrain transections disinhibit brown fat thermogenesis in neonatal rats (699) 214
Blumberg, P.M., see Szallasi, A. (703) 175
Blümcke, I., Wolf, H.K., Hof, P.R., Morrison, J.H. and Wiestler, O.D.
Regional distribution of the AMPA glutamate receptor subunits GluR2(4) in human hippocampus (682) 239
Bluthé, R.-M., Beaudu, C., Kelley, K.W. and Dantzer, R.
Differential effects of IL-1ra on sickness behavior and weight loss induced by IL-1 in rats (677) 171
Bobillier, P., see Giaume, M. (675) 121
Bock, E., see Rønn, L.C.B. (677) 145
Bockholt, H.J., see Travis, K.A. (686) 17
Bodega, G., see Boyano-Adánez, M.C. (688) 1
Bodnar, R.J., Glass, M.J., Ragnauth, A. and Cooper, M.L.
General, μ and κ opioid antagonists in the nucleus accumbens alter food intake under deprivation, glucoprivic and palatable conditions (700) 205
Bodnar, R.J., see Cole, J.L. (678) 168
Bodnar, R.J., see Leventhal, L. (685) 205
Boegman, R.J., see Connop, B.P. (676) 124
Boehm, G.W., see Mack, C.M. (697) 152
Bohn, M.C., see Wetzel, D.M. (679) 72
Bohn, M.C., see Yoshimoto, Y. (691) 25
Boisserie, F., see Devillers, J.-P. (700) 173
Boldry, R.C., Papa, S.M., Kask, A.M. and Chase, T.N.
MK-801 reverses effects of chronic levodopa on D1 and D2 dopamine agonist-induced rotational behavior (692) 259
Boldry, R.C., see Papa, S.M. (701) 13
Bolhuis, J.J., see Van der Zee, E.A. (676) 47
Bolton, D.C., see Lu, P. (681) 235
Bona, E., see Blomgren, K. (684) 136
Bongianni, F., see Viana Di Prisco, G. (695) 76
Bonhomme, N., Cador, M., Stinus, L., Le Moal, M. and Spampinato, U.
Short and long-term changes in dopamine and serotonin receptor binding sites in amphetamine-sensitized rats: a quantitative autoradiographic study (675) 215
Bonnet, J.-J., see Naudin, B. (701) 151
Bonnin, A., see Vela, G. (680) 142
Bonthius, D.J., Lothman, E.W. and Steward, O.
The role of extracellular ionic changes in upregulating the mRNA for glial fibrillary acidic protein following spreading depression (674) 314
Borbély, A.A., see Landolt, H.-P. (675) 67
Borbély, A.A., see Neuner-Jehle, M. (685) 143
Borchers, M., see Chance, W.T. (691) 180
Borland, K., see Login, I.S. (681) 209
Borland, K., see Login, I.S. (697) 271
Borlongan, C.V., Koutouzis, T.K., Freeman, T.B., Cahill, D.W. and Sanberg, P.R.
Behavioral pathology induced by repeated systemic injections of 3-nitropropionic acid mimics the motoric symptoms of Huntington's disease (697) 254
Borlongan, C.V., Randall, T.S., Cahill, D.W. and Sanberg, P.R.
Asymmetrical motor behavior in rats with unilateral striatal excitotoxic lesions as revealed by the elevated body swing test (676) 231
Borredon, J., see Vaucher, E. (691) 57
Borycz, J., see Bugajski, J. (681) 223
Bosco, G., see Perciavalle, V. (695) 293

Boudaba, C., Tasker, J.G. and Poulain, D.A.
Connections from the subfornical organ to the oxytocin and vasopressin systems in the lactating rat. A study using electrical stimulations, lesions and electrophysiological recordings (672) 1

Boué-Grabot, E., Dufy, B. and Garret, M.
Molecular diversity of GABA-gated chloride channels in the rat anterior pituitary (704) 125

Boulanger, L., see Lefrançois, L. (673) 39

Boulay, S.F., see Gitler, M.S. (687) 71

Boulay, S.F., see Gitler, M.S. (704) 151

Bourassa, J., see Deschênes, M. (701) 288

Bourassa, J., see Pinault, D. (670) 147

Bourguignon, J.-J., see Godbout, R. (673) 157

Bourre, J.-M., see Benrabh, H. (692) 57

Bouskila, Y. and Dudek, F.E.
Can a population of suprachiasmatic nucleus neurons with different period lengths produce a stable circadian rhythm? (670) 333

Bouvier, R., see Jordan, D. (695) 117

Bowen, W.D., see Cole, J.L. (678) 168

Bowenkamp, K.E., see Gould, T.J. (684) 150

Bowery, N.G., see Britton, P. (673) 331

Bowery, N.G., see Castro-Lopes, J.M. (679) 289

Bowser, R., see Ksiezak-Reding, H. (697) 63

Bowyer, J.F., Clausing, P., Gough, B., Slikker Jr., W. and Holson, R.R.
Nitric oxide regulation of methamphetamine-induced dopamine release in caudate/putamen (699) 62

Boyano-Adánez, M.C., Bodega, G., Martín-Espinosa, Á. and Arilla, E.
The benzodiazepine antagonist CGS 8216 prevents hyperammonemia-induced somatostatin receptor reduction in the brain (688) 1

Boyd, M.R., see Bhamre, S. (672) 276

Brachet, P., see Jehan, F. (672) 128

Brackstone, M., see Stoessl, A.J. (700) 115

Bradford, H.F., see Attwell, P.J.E. (698) 155

Bradley, P.M., Burns, B.D., King, T.M. and Webb, A.C.
Age and the effects of 2-D,L-amino-5-phosphonovalerate in an area of the chick forebrain which is essential for early learning (699) 103

Bradley, R.M., see Wang, L. (702) 188

Brailowsky, S., Montiel, T., Meneses, S. and Di Scala, G.
Effects of $GABA_B$ receptor antagonists on two models of focal epileptogenesis (702) 126

Brain, S.D., see Escott, K.J. (669) 93

Bramante, M., see Invernizzi, R. (696) 62

Brand, J.G., see Rawson, N.E. (681) 58

Brandsma, D., see Eggen, B.J.L. (690) 73

Brasko, J., Rai, P., Sabol, M.K., Patrikios, P. and Ross, D.T.
The AMPA antagonist NBQX provides partial protection of rat cerebellar Purkinje cells after cardiac arrest and resuscitation (699) 133

Brasko, J., see Ross, D.T. (683) 117

Brat, D.J., see Russell, J.W. (676) 258

Bratton, G.R., see Nation, J.R. (702) 223

Brauer, K., see Härtig, W. (692) 215

Brauer, K., see Härtig, W. (698) 265

Bray, G.A., see Barton, C. (702) 55

Breakefield, X.O., see Yoshimoto, Y. (691) 25

Bredesen, D.E., see Hisanaga, K. (684) 79

Breedlove, S.M., see Freeman, L.M. (690) 1

Breese, C.R., Freedman, R. and Leonard, S.S.
Glutamate receptor subtype expression in human postmortem brain tissue from schizophrenics and alcohol abusers (674) 82

Breese, G.R., see McCown, T.J. (701) 117

Breimer, D.D., see De Lange, E.C.M. (702) 261

Brent, P.J.
Haloperidol and reduced haloperidol-induced exacerbation of the dystonia produced by the κ opioid U50,488H in guinea-pigs is associated with inhibition of σ binding sites: behavioural and autoradiographical studies (684) 115

Brett, B., see Barth, D.S. (678) 177

Brewer, G.J.
Exogenous thrombin inhibits neuritogenesis in cultured neuroblastoma cells but not in rat hippocampal neurons (683) 258

Brewer, M.T., see Watkins, L.R. (692) 244

Brightman, M.W., see Sanovich, E. (705) 125

Brightman, T., Ye, J.-H., Ortiz-Jimenez, E., Flynn, E.J., Wu, W.-H. and McArdle, J.J.
2,3-Butanedione monoxime protects mice against the convulsant effect of picrotoxin by facilitating GABA-activated currents (678) 110

Brimijoin, W.S., see Russell, J.W. (676) 258

Brinck-Johnsen, T., see Clark, A.S. (679) 64

Brines, M.L., see De Lanerolle, N.C. (686) 182

Briñón, J.G., see Arévalo, R. (671) 112

Briñón, J.G., see Porteros, A. (689) 93

Briski, K.P.
Effects of peripheral versus central administration of the endogenous glucocorticoid, corticosterone, and the glucocorticoid receptor agonist, RU 28362, on LH release in male rats (670) 66

Britto, L.R.G., see Toledo, C.A.B. (705) 341

Britton, P., Whitton, P.S. and Bowery, N.G.
Effect of tetanus toxin on basal and evoked release of 5-hydroxytryptamine and dopamine in rat hippocampus in vivo (673) 331

Brock, J.W., see Prasad, C. (699) 149

Brodin, E., see Stiller, C.-O. (699) 231

Broersen, L.M., Heinsbroek, R.P.W., De Bruin, J.P.C., Uylings, H.B.M. and Olivier, B.
The role of the medial prefrontal cortex of rats in short-term memory functioning: further support for involvement of cholinergic, rather than dopaminergic mechanisms (674) 221

Brog, J.S., see Tan, Y. (689) 151

Broman, J., see Kechagias, S. (675) 316

Bronstein, D.M., Perez-Otano, I., Sun, V., Mullis Sawin, S.B., Chan, J., Wu, G.-C., Hudson, P.M., Kong, L.-Y., Hong, J.-S. and McMillian, M.K.
Glia-dependent neurotoxicity and neuroprotection in mesencephalic cultures (704) 112

Bronstein, D.M., see Trujillo, K.A. (698) 69

Bronzino, J.D., see Shultz, P.L. (682) 35

Brooke, J.D., McIlroy, W.E., Collins, D.F. and Misiaszek, J.E.
Mechanisms within the human spinal cord suppress fast reflexes to control the movement of the legs (679) 255

Brooke, J.D., see Cheng, J. (672) 89

Brooke, J.D., see Cheng, J. (681) 197

Brooke, J.D., see Misiaszek, J.E. (677) 65

Brooke, J.D., see Misiaszek, J.E. (702) 271

Brosch, M., see Bauer, R. (669) 291

Brotchie, J.M., see Maneuf, Y.P. (683) 102

Browman, K.E., see Badiani, A. (674) 291

Brown, H.E., see Garcia, M.M. (692) 23

Brown, I.R., see Mendis, D.B. (676) 69

Brown, J., see Horner, C.H. (703) 245

Brown, K.L., see Levin, B.E. (674) 307

Brown, L.L. and Sharp, F.R.
Metabolic mapping of rat striatum: somatotopic organization of sensorimotor activity (686) 207

Brown, M.W., see Zhu, X.O. (689) 101

Brown, T.J., see Kühnemann, S. (691) 229

Brownschidle, L.A., see Bannon, M.J. (695) 19

Brucato, F.H., Mott, D.D., Lewis, D.V. and Swartzwelder, H.S.
$GABA_B$ receptors modulate synaptically-evoked responses in the rat dentate gyrus, in vivo (677) 326

Bruce, J.H., see Neary, J.T. (675) 27

Brückner, G., see Härtig, W. (692) 215

Brückner, G., see Härtig, W. (698) 265

Bucan, M., see Pickard, G.E. (705) 255

Buccafusco, J.J., Terry, Jr., A.V. and Shuster, L.
Spinal NMDA receptor — nitric oxide mediation of the expression of morphine withdrawal symptoms in the rat (679) 189

Buckingham, S.D., see Hosie, A.M. (693) 257

Buée, L., see Permanne, B. (685) 154

Bueno, L., see Castex, N. (688) 149

Buerk, D.G., see Lahiri, S. (684) 194

Bugajski, A.J., see Bugajski, J. (681) 223

Bugajski, J., Borycz, J., Glod, R. and Bugajski, A.J.
Crowding stress impairs the pituitary-adrenocortical responsiveness to the vasopressin but not corticotropin-releasing hormone stimulation (681) 223

Buijs, R.M., see Kalsbeek, A. (682) 75

Buldakova, S., see Weiss, M. (695) 105

Bult, A., see Van der Zee, E.A. (701) 99

Bunnemann, B., see Aguirre, J.A. (684) 159

Buño, W., see Sierra, F. (683) 215

Burazin, T.C.D., see Gundlach, A.L. (672) 214

Burdette, L.J. and Gilbert, M.E.
Stimulus parameters affecting paired-pulse depression of dentate granule cell field potentials.. I. Stimulus intensity (680) 53

Burdette, L.J. and Masukawa, L.M.
Stimulus parameters affecting paired-pulse depression of dentate granule cell field potentials.. II. Low-frequency stimulation (680) 63

Burdette, L.J., see Masukawa, L.M. (678) 65

Bures, J., see Rashidy-Pour, A. (693) 64

Burgos, I., Cuello, A.C., Liberini, P., Pioro, E. and Masliah, E.

NGF-mediated synaptic sprouting in the cerebral cortex of lesioned primate brain (692) 154
Buritova, J., Honoré, P. and Besson, J.-M. Indomethacin reduces both Krox-24 expression in the rat lumbar spinal cord and inflammatory signs following intraplantar carrageenan (674) 211
Buritova, J., see Chapman, V. (697) 258
Buritova, J., see Honoré, P. (705) 91
Burnet, P.W.J., Eastwood, S.L., Lacey, K. and Harrison, P.J. The distribution of 5-HT_{1A} and 5-HT_{2A} receptor mRNA in human brain (676) 157
Burns, B.D., see Bradley, P.M. (699) 103
Burns, R.S., see Pakkenberg, H. (693) 201
Burt, A.M., see Rossby, S.P. (687) 79
Burton, M.B. and Gebhart, G.F. Effects of intracolonic acetic acid on responses to colorectal distension in the rat (672) 77
Burton, M.D., Nouri, M. and Kazemi, H. Acetylcholine and central respiratory control: perturbations of acetylcholine synthesis in the isolated brainstem of the neonatal rat (670) 39
Busto, R., see Belayev, L. (702) 266
Busto, R., see Green, E.J. (702) 145
Busto, R., see Takagi, K. (691) 160
Bustos, G., see Sepúlveda, C. (674) 104
Butí, M., see Verdú, E. (696) 76
Butler, S.M., see Pettigrew, L.C. (691) 243
Butt, A.M. Effect of inflammatory agents on electrical resistance across the blood–brain barrier in pial microvessels of anaesthetized rats (696) 145
Byers, J.M., see Thompson, G.C. (683) 140

C

Cadet, J.L., see Hirata, H. (677) 345
Cadet, R., Aigouy, L. and Woda, A. Enhanced nociceptive behaviour following conditioning injection of formalin in the perioral area of the rat (676) 189
Cador, M., see Bonhomme, N. (675) 215
Cador, M., see Henry, C. (685) 179
Cahill, D.W., see Borlongan, C.V. (676) 231
Cahill, D.W., see Borlongan, C.V. (697) 254
Cahill, G.M., see Green, C.B. (677) 283
Cahusac, P.M.B., Morris, R. and Hill, R.G. A pharmacological study of the modulation of neuronal and behavioural nociceptive responses in the rat trigeminal region (700) 70
Cain, C.D., see Packianathan, S. (688) 61
Caine, S.B., Heinrichs, S.C., Coffin, V.L. and Koob, G.F. Effects of the dopamine D-1 antagonist SCH 23390 microinjected into the accumbens, amygdala or striatum on cocaine self-administration in the rat (692) 47
Calas, A., see Battaglia, A.A. (696) 7
Calder, L.D., see Karler, R. (671) 100
Caldwell, J.D., Walker, C.H., Faggin, B.M., Carr, R.B., Pedersen, C.A. and Mason, G.A. Characterization of progesterone-3-[^{125}I-BSA] binding sites in the medial preoptic area and anterior hypothalamus (693) 225
Calingasan, N.Y., Gandy, S.E., Baker, H., Sheu, K.-F.R., Kim, K.-S., Wisniewski, H.M. and Gibson, G.E. Accumulation of amyloid precursor protein-like immunoreactivity in rat brain in response to thiamine deficiency (677) 50
Calon, F., Goulet, M., Blanchet, P.J., Martel, J.C., Piercey, M.F., Bédard, P.J. and Di Paolo, T. Levodopa or D2 agonist induced dyskinesia in MPTP monkeys: correlation with changes in dopamine and $GABA_A$ receptors in the striatopallidal complex. (680) 43
Calopa, M., see Espino, A. (669) 19
Calvet, M.-C., see Petite, D. (669) 263
Calvo, P., see San Juan, I. (698) 209
Calza', L., see Giardino, L. (687) 83
Cameron, N.E., see Love, A. (703) 105
Caminos, E., see Velasco, A. (705) 315
Cammarota, M., see Bernabeu, R. (685) 163
Cammisuli, S., see Milgram, N.W. (670) 112
Campbell, K.A., Kalmbacher, C.E., Specht, C.D. and Gregg, T.R. Dependence of rat vertex auditory evoked potentials on central muscarinic receptor activation (702) 110
Candeletti, S. and Ferri, S. Cerebrospinal alterations of immunoreactive dynorphin A after unilateral dorsal rhizotomy in the rat (670) 289
Cann-Moisan, C., see Mialon, P. (676) 352
Cano, J., see Venero, J.L. (672) 153
Canton, H., see Ike, J. (678) 49
Cao, C., Matsumura, K., Yamagata, K. and Watanabe, Y. Induction by lipopolysaccharide of cyclooxygenase-2 mRNA in rat brain; its possible role in the febrile response (697) 187
Cao, G., see Joseph, J.A. (671) 73
Capocchi, G., see Grassi, S. (699) 183
Caramia, M.D., see Rossini, P.M. (676) 314
Carbary, T., see Dhillon, H.S. (698) 100
Carceller, F., see Avendaño, C. (673) 83
Carli, G., see Aloisi, A.M. (699) 242
Carlier, E., see Talmi, M. (704) 97
Caroff, J., see Mialon, P. (676) 352
Carr, K.D., see Abrahamsen, G.C. (695) 186
Carr, K.D., see Berman, Y. (685) 129
Carr, L.G., see Liang, Y. (679) 82
Carr, L.G., see Reed, G.E. (682) 1
Carr, R.B., see Caldwell, J.D. (693) 225
Carrier, G.O. Whole-cell and perforated patch recordings of four distinct K^+ currents in acutely dispersed coeliac-superior mesenteric ganglia neurons of adult rats (701) 1
Carriquiry, A., see Uemura, E. (671) 187
Carroll, R.T., see Frackowiak, J. (676) 225
Carvalho, A.P., see Carvalho, C.M. (669) 234
Carvalho, A.P., see Malva, J.O. (696) 242
Carvalho, C.M., Ferreira, I.L., Duarte, C.B., Malva, J.O., Tretter, L., Adam-Vizi, V. and Carvalho, A.P. Relation of $[Ca^{2+}]_i$ to dopamine release in striatal synaptosomes: role of Ca^{2+} channels (669) 234
Carvalho, C.M., see Malva, J.O. (696) 242
Casarejos, M.J., see Pardo, B. (682) 133
Cascio, C., see Guarneri, P. (683) 65
Cashore, W.J., see Lee, C. (689) 233
Casley, D., see Moeller, I. (701) 301
Cassel, J.-C., Jeltsch, H., Neufang, B., Lauth, D., Szabo, B. and Jackisch, R. Downregulation of muscarinic- and 5-HT_{1B}-mediated modulation of [^{3}H]acetylcholine release in hippocampal slices of rats with fimbria-fornix lesions and intrahippocampal grafts of septal origin (704) 153
Cassus-Soulanis, S., Foutz, A.S. and Denavit-Saubié, M. Involvement of NMDA receptors in inspiratory termination in rodents: effects of wakefulness (679) 25
Castanon, N., see Chaouloff, F. (693) 169
Castellani, R., Smith, M.A., Richey, P.L., Kalaria, R., Gambetti, P. and Perry, G. Evidence for oxidative stress in Pick disease and corticobasal degeneration (696) 268
Castellano, B., see Vela, J.M. (694) 287
Castex, N., Fioramonti, J., Fargeas, M.-J. and Bueno, L. *c-fos* expression in specific rat brain nuclei after intestinal anaphylaxis: involvement of 5-HT_3 receptors and vagal afferent fibers (688) 149
Castillo, P.E., see Engelhardt, J.K. (675) 241
Caston, J., see Jones, N. (697) 216
Castro-Lopes, J.M., Malcangio, M., Pan, B.H. and Bowery, N.G. Complex changes of $GABA_A$ and $GABA_B$ receptor binding in the spinal cord dorsal horn following peripheral inflammation or neurectomy (679) 289
Casu, M.A., see Marrosu, F. (671) 329
Cato, M.J., see Gannon, R.L. (694) 264
Cattarelli, M., see Datiche, F. (671) 27
Caulliez, R., see Ruffin, M.-P. (700) 121
Ceccatelli, S., see Giardino, L. (687) 83
Cerne, R., see Kolaj, M. (671) 227
Cervo, L. and Samanin, R. Effects of dopaminergic and glutamatergic receptor antagonists on the acquisition and expression of cocaine conditioning place preference (673) 242
Cesar, M., see Schmoll, D. (677) 341
Cespuglio, R., see El Kafi, B. (686) 150
Cevolani, D., Strocchi, P., Bentivoglio, M. and Stirpe, F. Suicide retrograde transport of volkensin in cerebellar afferents: direct evidence, neuronal lesions and comparison with ricin (689) 163
Chabot, C., see Bernard, J. (671) 195

Chachin, M., see Shimohama, S. (699) 125
Chadarevian, A., see Nuydens, R. (688) 86
Chadi, G., see Li, X.-M. (684) 225
Chai, C.-Y., see Lin, A.M.-Y. (696) 15
Chai, S.Y., see Jenkins, T.A. (691) 213
Chai, S.Y., see Moeller, I. (701) 301
Chalmers, D., see Behan, D.P. (698) 259
Chan, J., see Bronstein, D.M. (704) 112
Chan, Y.S., see Lai, C.H. (693) 39
Chance, W.T., Balasubramaniam, A., Borchers, M. and Fischer, J.E.
Refractory hypothalamic adenylate cyclase in anorectic tumor-bearing rats: implications for NPY-induced feeding (691) 180
Chand, P., see Flaris, N.A. (678) 99
Chandler, S.H., see Hsiao, C.-f. (695) 217
Chandross, K.J., see Ludlam, W.H. (685) 12
Chang, M., see Wakabayashi, S. (679) 110
Chang, S.L., Patel, N.A. and Romero, A.A.
Activation and desensitization of Fos immunoreactivity in the rat brain following ethanol administration (679) 89
Chang, X., see Javors, M.A. (694) 49
Changeux, J.-P., see Li, X.-M. (679) 157
Chaouloff, F., Kulikov, A., Sarrieau, A., Castanon, N. and Mormède, P.
Male Fischer 344 and Lewis rats display differences in locomotor reactivity, but not in anxiety-related behaviours: relationship with the hippocampal serotonergic system (693) 169
Chapin, J.K., see Lee, R.-S. (687) 1
Chapin, J.K., see Lee, R.-S. (687) 12
Chapman, C.A., see Racine, R.J. (702) 77
Chapman, C.A., see Racine, R.J. (702) 87
Chapman, V. and Dickenson, A.H.
Time-related roles of excitatory amino acid receptors during persistent noxiously evoked responses of rat dorsal horn neurones (703) 45
Chapman, V., Buritova, J., Honoré, P. and Besson, J.-M.
7-Nitro-indazole, a selective inhibitor of neuronal nitric oxide synthase, reduces formalin evoked c-Fos expression in dorsal horn neurons of the rat spinal cord (697) 258
Chapman, V., see Honoré, P. (705) 91
Charara, A., see Parent, A. (698) 280
Chartrel, N., see Collin, F. (703) 111
Chase, M.H., see Engelhardt, J.K. (675) 241
Chase, M.H., see López-Rodríguez, F. (699) 201
Chase, T.N., see Anderson, L.A. (691) 106
Chase, T.N., see Boldry, R.C. (692) 259
Chase, T.N., see Papa, S.M. (701) 13
Chays, A., see Giraud, A.L. (705) 15
Chebabo, S.R., Hester, M.A., Aitken, P.G. and Somjen, G.G.
Hypotonic exposure enhances synaptic transmission and triggers spreading depression in rat hippocampal tissue slices (695) 203
Chen, D.-Y., see Weinger, M.B. (669) 10
Chen, G. and Ewing, A.G.
Multiple classes of catecholamine vesicles observed during exocytosis from the *Planorbis* cell body (701) 167
Chen, J., Graham, S.H. and Simon, R.P.
A comparison of the effects of a sodium channel blocker and an NMDA antagonist upon extracellular glutamate in rat focal cerebral ischemia (699) 121
Chen, J.-y., see Yang, S.-w. (673) 170
Chen, L., see Phelps, C.P. (688) 193
Chen, S. and Aston-Jones, G.
Evidence that cholera toxin B subunit (CTb) can be avidly taken up and transported by fibers of passage (674) 107
Chen, S.-F., see Hsueh, C.-M. (678) 76
Chen, S.-H., see Çolak, A. (691) 76
Chen, X.-H., Geller, E.B., De Riel, J.K., Liu-Chen, L.-Y. and Adler, M.W.
Antisense oligodeoxynucleotides against μ- or κ-opioid receptors block agonist-induced body temperature changes in rats (688) 237
Chen, Y., see Stieber, A. (700) 261
Chen, Y.-Z., see Liu, X. (704) 19
Cheng, C., see Savelli, J.E. (682) 41
Cheng, C.-L., Ma, C.-P. and De Groat, W.C.
Effect of capsaicin on micturition and associated reflexes in chronic spinal rats (678) 40
Cheng, J., Brooke, J.D., Misiaszek, J.E. and Staines, W.R.
The relationship between the kinematics of passive movement, the stretch of extensor muscles of the leg and the change induced in the gain of the soleus H reflex in humans (672) 89
Cheng, J., Brooke, J.D., Staines, W.R., Misiaszek, J.E. and Hoare, J.
Long-lasting conditioning of the human soleus H reflex following quadriceps tendon tap (681) 197
Cheng, J., see Misiaszek, J.E. (677) 69
Cheng, J., see Misiaszek, J.E. (702) 271
Cheng, P.Y., see Svingos, A.L. (700) 25
Chepkova, A.N., French, P., De Wied, D., Ontskul, A.H., Ramakers, G.M.J., Skrebitski, V.G., Gispen, W.H. and Urban, I.J.A.
Long-lasting enhancement of synaptic excitability of CA1/subiculum neurons of the rat ventral hippocampus by vasopressin and vasopressin(4–8) (701) 255
Cherniack, N.S., see Prabhakar, N.R. (697) 266
Cherry, N.J., see McCall, A.L. (670) 29
Chertow, B.S., see Leidy, Jr., J.W. (681) 84
Chéry-Croze, S., see Giraud, A.L. (705) 15
Cheung, S., Salinas, J. and Hammer, Jr., R.P.
Gonadal steroid hormone-dependence of β-endorphin-like immunoreactivity in the medial preoptic area of the rat (675) 83
Chi, J., see Mohammed, J.R. (695) 100
Chiba, S. and Wada, J.A.
Amygdala kindling in rats with brainstem bisection (682) 50
Chiba, T., see Nemoto, T. (685) 33
Chih, C.-P., see Roberts, Jr., E.L. (678) 83
Childress, D.S., see Kuiken, T.A. (676) 113
Chinchetru, M.A., see San Juan, I. (698) 209
Chiou, A.L., see Wang, Y. (693) 233
Chirila, T.V., see Plant, G.W. (671) 119
Chiu, J.F., Mack, A.F. and Fernald, R.D.
Daily rhythm of cell proliferation in the teleost retina (673) 119
Chiueh, C.C., see Sziráki, I. (698) 285
Cho, H.-J., Lee, H.-S., Bae, M.-A. and Joo, K.
Chronic arthritis increases tyrosine hydroxylase mRNA levels in the pontine noradrenergic cell groups (695) 96
Cho, S.S. and Lucas, J.J.
Immunocytochemical study with an anti-transferrin binding protein serum: a marker for avian oligodendrocytes (674) 15
Choi-Miura, N.-H., see Kida, E. (674) 341
Choi-Miura, N.-H., see Kida, E. (685) 211
Choi, Y.-H., Furuse, M., Okumura, J.-i. and Denbow, D.M.
The interaction of clonidine and nitric oxide on feeding behavior in the chicken (699) 161
Chong, Y.-H. and Suh, Y.-H.
Aggregation of amyloid precursor proteins by aluminum in vitro (670) 137
Chopp, M., see Zhang, R.-L. (682) 182
Chopp, M., see Zhang, Z.G. (698) 79
Christensen, M.D., see Supowit, S.C. (686) 77
Chu, P.-j., Saito, H. and Abe, K.
Polyamines promote regeneration of injured axons of cultured rat hippocampal neurons (673) 233
Chuang, D.-M., see Gao, X.-M. (703) 63
Chudler, E.H., Sugiyama, K. and Dong, W.K.
Multisensory convergence and integration in the neostriatum and globus pallidus of the rat (674) 33
Chugh, A., see Savelli, J.E. (682) 41
Chugh, D., see Lahiri, S. (684) 194
Church, J., see Sawyer, D.C. (698) 30
Churn, S.B., see Limbrick Jr., D.D. (690) 145
Cicchetti, F., see Parent, A. (674) 347
Cimmerer, A.L., see Rowland, N.E. (669) 73
Cipolla-Neto, J., Bartol, I., Seraphim, P.M., Afeche, S.C., Scialfa, J.H. and Peraçoli, A.M.
The effects of lesions of the thalamic intergeniculate leaflet on the pineal metabolism (691) 133
Ciriello, J., see Hochstenbach, S.L. (674) 46
Ciriello, J., see Roder, S. (705) 71
Cisneros, M., see De Gortari, P. (679) 144
Clapp, L.E., Klette, K.L., DeCoster, M.A., Bernton, E., Petras, J.M., Dave, J.R., Laskosky, M.S., Smallridge, R.C. and Tortella, F.C.
Phospholipase A_2-induced neurotoxicity in vitro and in vivo in rats (693) 101
Clark, A.S., Mitre, M.C. and Brinck-Johnsen, T.
Anabolic-androgenic steroid and adrenal steroid effects on hippocampal plasticity (679) 64
Clark, D., see Tong, Z.-Y. (674) 63
Clark, M.B., Ma, Y., Bloom, M.L., Barker, J.E., Zagon, I.S., Zimmer, W.E. and Goodman, S.R.
Corrigendum to 'Brain α erthroid spectrin:

identification, compartmentalization, and β spectrin associations". [Brain Res. 663 (1994) 223–236] (BRES 10639) (700) 308
Clark, V.J., see Fordyce, D.E. (672) 170
Clarke, C.L., see Svingos, A.L. (700) 25
Clausing, P., see Bowyer, J.F. (699) 62
Cleary, J., Hittner, J.M., Semotuk, M., Mantyh, P. and O'Hare, E.
Beta-amyloid(1–40) effects on behavior and memory (682) 69
Clement, M.E. and McCall, R.B.
Effects of inhibitory amino acids on the frequency components in sympathetic nerve discharge (696) 258
Co, C., see Dworkin, S.I. (682) 116
Coceani, F., Bishai, I., Engelberts, D., House, R.V. and Adamson, S.L.
Response of newborn and adult sheep to pyrogens: relation between fever and brain eicosanoid changes (700) 191
Cochran, S.L. and Correia, M.J.
Functional support of glutamate as a vestibular hair cell transmitter in an amniote (670) 321
Cody, W.L., see Banks, W.A. (695) 59
Coffey, H., see Levick, V. (676) 325
Coffin, V.L., see Caine, S.B. (692) 47
Cohen, A.J., see Wimer, R.E. (701) 293
Cohen, B.M., see Wan, W. (688) 95
Cohen, P., see Lowenstein, P.R. (676) 80
Cohen, R.S., see Benevento, L.A. (689) 172
Çolak, A., Goodman, J.C., Chen, S.-H., Woo, S.L.C., Grossman, R.G. and Shine, H.D.
Adenovirus-mediated gene therapy for experimental spinal cord tumors: tumoricidal efficacy and functional outcome (691) 76
Cole, J.L., Leventhal, L., Pasternak, G.W., Bowen, W.D. and Bodnar, R.J.
Reductions in body weight following chronic central opioid receptor subtype antagonists during development of dietary obesity in rats (678) 168
Cole, J.L., see Leventhal, L. (685) 205
Coleman-Mesches, K. and McGaugh, J.L.
Differential involvement of the right and left amygdalae in expression of memory for aversively motivated training (670) 75
Coleman-Mesches, K. and McGaugh, J.L.
Muscimol injected into the right or left amygdaloid complex differentially affects retention performance following aversively motivated training (676) 183
Coleman, P.D., see DiLoreto Jr., D.A. (698) 1
Collado, P., see Holman, S.D. (694) 167
Collet, L., see Giraud, A.L. (705) 15
Collier, B., see Leão, R.M. (703) 86
Collier, B., see Zhang, C. (683) 59
Collier, T.J., see Steece-Collier, K. (676) 404
Collier, T.J., see Yoshimoto, Y. (691) 25
Collin, F., Chartrel, N., Fasolo, A., Conlon, J.M., Vandesande, F. and Vaudry, H.
Distribution of two molecular forms of gonadotropin-releasing hormone (GnRH) in the central nervous system of the frog *Rana ridibunda* (703) 111
Collins, D.F., see Brooke, J.D. (679) 255
Collins, D.R., Scollon, J.M., Russell, D.C. and Davies, S.N.
Indirect potentiation of synaptic transmission by metabotropic glutamate receptors in the rat hippocampal slice (684) 165
Collins, J.G., see Yamamori, Y. (702) 162
Collins, M.A., see Neafsey, E.J. (675) 279
Colom, L.V., see Le, W.-D. (686) 49
Colombari, E. and Talman, W.T.
Denervation supersensitivity to glutamate in the nucleus tractus solitarii after removal of the nodose ganglion (677) 110
Comery, T.A., see Werner, D. (701) 55
Condé, G.L., Bicknell, R.J. and Herbison, A.E.
Changing patterns of Fos expression in brainstem catecholaminergic neurons during the rat oestrous cycle (672) 68
Conforti, N., see Ben-Hur, T. (702) 17
Conklin, L.S., see Delville, Y. (689) 147
Conlon, J.M., see Collin, F. (703) 111
Connop, B.P., Boegman, R.J., Jhamandas, K. and Beninger, R.J.
Excitotoxic action of NMDA agonists on nigrostriatal dopaminergic neurons: modulation by inhibition of nitric oxide synthesis (676) 124
Connor, H.E., see Escott, K.J. (669) 93
Constantine, T., see Schor, N.F. (673) 175
Contreras, R.J., see Lundy Jr., R.F. (676) 169
Cook, M., see Takahashi, S. (678) 21
Cools, A.R., see Mulders, W.H.A.M. (689) 47
Cools, A.R., see Mulders, W.H.A.M. (689) 61
Cools, A.R., see Prinssen, E.P.M. (673) 283
Cooper, B.Y., see Yeomans, D.C. (670) 297
Cooper, M.L., see Bodnar, R.J. (700) 205
Cooper, R.L., Hampson, D.R. and Atwood, H.L.
Synaptotagmin-like expression in the motor nerve terminals of crayfish (703) 214
Cooper, S.J., see Gilbert, D.B. (681) 1
Coopersmith, R. and Leon, M.
Olfactory bulb glycogen metabolism: noradrenergic modulation in the young rat (674) 230
Copolov, D.L., see Yang, Z. (692) 129
Corbett, A.M., see Jarnot, M.D. (674) 159
Cordisco, B.R., see LaManna, J.C. (687) 175
Cornelissen, F., see Nuydens, R. (688) 86
Cornish, J.L. and Van den Buuse, M.
Stimulation of the rat mesolimbic dopaminergic system produces a pressor response which is mediated by dopamine D-1 and D-2 receptor activation and the release of vasopressin (701) 28
Correia, M.J., see Cochran, S.L. (670) 321
Corsi, C., see Pazzagli, M. (684) 103
Corsi-Cabrera, M., see Juárez, J. (694) 21
Corsini, G.U., see Maggio, R. (679) 184
Corsini, G.U., see Vaglini, F. (674) 127
Costanzo, R.M., see Osada, T. (683) 254
Costentin, J., see Naudin, B. (701) 151
Cote, N.K., see Eaton, S.J. (695) 227
Cotman, C.W., see Pike, C.J. (671) 293
Cotman, C.W., see Satou, T. (697) 35
Cotman, C.W., see Woods, A.G. (697) 53
Cotter, M.A., see Love, A. (703) 105
Cottet-Emard, J.M., see Soulier, V. (674) 188
Cottrell, G.A., see McIntyre Burnham, W. (698) 180
Coulter, C.L., Happe, H.K., Bergman, D.A. and Murrin, L.C.
Localization and quantification of the dopamine transporter: comparison of [^{3}H]WIN 35,428 and [^{125}I]RTI-55 (690) 217
Cowart, B.J., see Rawson, N.E. (681) 58
Cowburn, R.F., see Garlind, A. (681) 160
Craddock, S.D., see Pettigrew, L.C. (691) 243
Craig, C.R., see Gould, E.M. (698) 62
Crain, S.M. and Shen, K.-F.
Chronic morphine-treated sensory ganglion neurons remain supersensitive to the excitatory effects of naloxone for months after return to normal culture medium: an in vitro model of 'protracted opioid dependence' (694) 103
Crain, S.M., see Fan, S.-f. (696) 97
Crain, S.M., see Shen, K.-F. (673) 30
Crain, S.M., see Shen, K.-F. (701) 158
Crandall, B.M., see Socci, D.J. (693) 88
Cratty, M.S., Ward, H.E., Johnson, E.A., Azzaro, A.J. and Birkle, D.L.
Prenatal stress increases corticotropin-releasing factor (CRF) content and release in rat amygdala minces (675) 297
Cremisi, F., see Ugolini, G. (704) 121
Cremona, S., see Goujon, E. (702) 173
Crespo, C., see Arévalo, R. (671) 112
Crespo, C., see Porteros, A. (689) 93
Crews, D., see Kendrick, A.M. (680) 226
Cribbs, D.H., see Woods, A.G. (697) 53
Crocker, A.D., see Lee, C.Y. (681) 205
Crofton, J.T., see Sato, K. (689) 71
Crossman, A.R., see Maneuf, Y.P. (683) 102
Crouch, M.F., see Johanson, S.O. (690) 55
Croucher, M.J., see Attwell, P.J.E. (698) 155
Crowley, W.R., see Dube, M.G. (690) 275
Crusio, W.E., see Hensbroek, R.A. (682) 203
Crutcher, K.A., see Yu, C. (672) 55
Cruwys, S.C., see Garrett, N.E. (675) 203
Cruwys, S.C., see Kidd, B.L. (688) 72
Crystal, R.G., see Kuo, H. (705) 31
Cuello, A.C., see Burgos, I. (692) 154
Cueva-Rolón, R., Gómez, L.E., Komisaruk, B.R. and Muñoz-Martínez, E.J.
Inhibition of withdrawal responses by pelvic nerve electrical stimulation (679) 267
Cugini, Jr., C.D., see Leidy, Jr., J.W. (681) 84
Culman, J., see Tschöpe, C. (690) 15
Cummings, B.J., see Satou, T. (697) 35
Cunnick, J.E., see Goodwin, J.L. (692) 207
Curlewis, J.D., Thiéry, J.-C. and Malpaux, B.
Effect of hypothalamic infusion of a dopamine D_1 receptor antagonist on prolactin secretion in the ewe (697) 48
Curry, J., see Holliday, J. (673) 141
Curry, J.G., see Gruol, D.L. (673) 1
Curto, K.A., see Gould, E.M. (698) 62
Cusin, I., see Doyle, P. (684) 47
Cutillas, B., see Espino, A. (695) 151
Cutler, R.C., see Joseph, J.A. (671) 73

Czéh, G., see Vida, I. (671) 1
Czilli, D.L., see Li, W.Y. (682) 207
Czopf, J., see Vida, I. (671) 1

D

Da Costa Gomez, T.M. and Behbehani, M.M.
An electrophysiological characterization of the projection from the central nucleus of the amygdala to the periaqueductal gray of the rat: the role of opioid receptors (689) 21
Dafny, N., see Yang, S.-w. (673) 170
Dahlin, L.B.
Prevention of macrophage invasion impairs regeneration in nerve grafts (679) 274
Dahlström, A., see Hou, X.-E. (679) 49
Dai, W.-J. and Yao, T.
Effects of dehydration and salt-loading on hypothalamic vasopressin mRNA level in male and female rats (676) 178
Daigen, A., see Akiyama, K. (679) 212
Dal Canto, M.C. and Gurney, M.E.
Neuropathological changes in two lines of mice carrying a transgene for mutant human Cu,Zn SOD, and in mice overexpressing wild type human SOD: a model of familial amyotrophic lateral sclerosis (FALS) (676) 25
Dalia, A. and Wallace, L.J.
Amphetamine induction of c-*fos* in the nucleus accumbens is not inhibited by glutamate antagonists (694) 299
Dalmau, I., see Vela, J.M. (694) 287
Dalmaz, Y., see Soulier, V. (674) 188
Dam, M., see Freo, U. (677) 213
Damsma, G., see Pfaus, J.G. (693) 21
Danhof, M., see De Lange, E.C.M. (702) 261
Danielsen, N., Kerns, J.M., Holmquist, B., Zhao, Q., Lundborg, G. and Kanje, M.
Predegeneration enhances regeneration into acellular nerve grafts (681) 105
Dantzer, R., see Bluthé, R.-M. (677) 171
Dantzer, R., see Goujon, E. (702) 173
Darius, S., Wolf, G., Huang, P.L. and Fishman, M.C.
Localization of NADPH-diaphorase/nitric oxide synthase in the rat retina: an electron microscopic study (690) 231
DaSilva, A.M.T., see Gatti, P.J. (693) 80
Date, I., see Miyoshi, Y. (681) 131
Datiche, F., Luppi, P.-H. and Cattarelli, M.
Serotonergic and non-serotonergic projections from the raphe nuclei to the piriform cortex in the rat: a cholera toxin B subunit (CTb) and 5-HT immunohistochemical study (671) 27
Dave, J.R., see Clapp, L.E. (693) 101
David, J.-P., see Permanne, B. (685) 154
David, J.A. and Pitman, R.M.
Muscarinic agonists modulate calcium-dependent outward currents in an identified insect motoneurone (669) 153
Davidoff, R.A., see Holohean, A.M. (704) 184
Davidson, M., Shanley, B. and Wilce, P.
Increased NMDA-induced excitability during ethanol withdrawal: a behavioural and histological study (674) 91
Davies, H.A., see Horner, C.H. (703) 245
Davies, H.A., see Sojka, M. (684) 209
Davies, P., Petit, J. and Scott, J.J.A.
The dynamic response of Golgi tendon organs to tetanic contraction of in-series motor units (690) 82
Davies, P., see Ksiezak-Reding, H. (697) 63
Davies, P., see Scott, J.J.A. (697) 225
Davies, S.N., see Collins, D.R. (684) 165
Davis, F.C., see Viswanathan, N. (686) 10
Davis, M., see De Lima, T.C.M. (700) 59
Davis, M.D., see Banks, W.A. (695) 59
Davis, R.E., see Lipinski, W.J. (692) 143
Dawson, D., see Dewar, D. (684) 70
Day, T.A., see Smith, D.W. (698) 232
Deacon, S. and Arendt, J.
Melatonin-induced temperature suppression and its acute phase-shifting effects correlate in a dose-dependent manner in humans (688) 77
Deadwyler, S.A., see Kirby, M.T. (688) 114
Dean, R.L., see Sanovich, E. (705) 125
De Angelis, L.
Ascorbic acid and atypical antipsychotic drugs: modulation of amineptine-induced behavior in mice (670) 303
De Beaurepaire, R., see Sellami, S. (694) 69
De Belleroche, J., see Hay, C. (704) 145
De Belleroche, J., see Virgo, L. (676) 196
De Boer, A.G., see De Lange, E.C.M. (702) 261
Deboer, T. and Tobler, I.
Temperature dependence of EEG frequencies during natural hypothermia (670) 153
De Bruin, J.P.C., see Broersen, L.M. (674) 221
Decchi, B., see Rossi, A. (700) 164
Dechesne, C.J., see Demêmes, D. (671) 83
Decker, K., see Reuss, S. (695) 257
Decker, K.P., Roy-Byrne, P.P. and Merchant, K.M.
Effect of muscimol on haloperidol-induced alteration of neurotensin gene expression in the striatum and nucleus accumbens in the rat (691) 9
Decker, M.W., see Bannon, A.W. (678) 244
DeCoster, M.A., Klette, K.L., Knight, E.S. and Tortella, F.C.
σ receptor-mediated neuroprotection against glutamate toxicity in primary rat neuronal cultures (671) 45
DeCoster, M.A., see Clapp, L.E. (693) 101
DeCoster, M.A., see Klette, K.L. (704) 31
DeFelipe, J., see Del Río, M.R. (690) 133
DeFelipe, J., see Vickers, J.C. (671) 175
De Gortari, P., Fernández-Guardiola, A., Martinez, A., Cisneros, M. and Joseph-Bravo, P.
Changes in TRH and its degrading enzyme pyroglutamyl peptidase II, during the development of amygdaloid kindling (679) 144
De Graan, P.N.E., see Versteeg, D.H.G. (686) 233
De Groat, W.C., see Cheng, C.-L. (678) 40
De Groat, W.C., see Matsumoto, G. (693) 246
De Groat, W.C., see Yoshiyama, M. (691) 185
Deguchi, T., see Ichikawa, H. (679) 205
DeGuzman, T., see Benuck, M. (678) 259
De Hua Chui, , see Ichihara, N. (695) 173
De Jong, G.I., see Harkany, T. (698) 270
De Jong, M., see Nuydens, R. (688) 86
De Juan, E., see Martínez, M. (673) 149
De Juan, J.A., Moya, F.J., Fernandez-Cruz, A. and Fernandez-Durango, R.
Identification of endothelin receptor subtypes in rat retina using subtype-selective ligands (690) 25
Delacourte, A., see Permanne, B. (685) 154
Delahunty, T.M., see Gong, Q.-Z. (700) 299
De Lanerolle, N.C., Gunel, M., Sundaresan, S., Shen, M.Y., Brines, M.L. and Spencer, D.D.
Vasoactive intestinal polypeptide and its receptor changes in human temporal lobe epilepsy (686) 182
Delaney, S.M. and Geiger, J.D.
Enhancement of NMDA-induced increases in levels of endogenous adenosine by adenosine deaminase and adenosine transport inhibition in rat striatum (702) 72
De Lange, E.C.M., Danhof, M., Zurcher, C., De Boer, A.G. and Breimer, D.D.
Repeated microdialysis perfusions: periprobe tissue reactions and BBB permeability (702) 261
Del Cerro, C., see DiLoreto Jr., D.A. (698) 1
Del Cerro, M., see DiLoreto Jr., D.A. (698) 1
Del Cerro, M.C.R., Perez Izquierdo, M.A., Rosenblatt, J.S., Johnson, B.M., Pacheco, P. and Komisaruk, B.R.
Brain 2-deoxyglucose levels related to maternal behavior-inducing stimuli in the rat (696) 213
De Lima, T.C.M. and Davis, M.
Involvement of cyclic AMP at the level of the nucleus reticularis pontis caudalis in the acoustic startle response (700) 59
De Lima, V.M.F., see Ulmer, H.J. (691) 239
Delivoria-Papadopoulos, M., see Goplerud, J.M. (696) 161
Delivoria-Papadopoulos, M., see McGowan, J.E. (670) 283
Della Torre, G., see Grassi, S. (699) 183
Dellovade, T.L., Rissman, E.F., Thompson, N., Harada, N. and Ottinger, M.A.
Co-localization of aromatase enzyme and estrogen receptor immunoreactivity in the preoptic area during reproductive aging (674) 181
DeLorenzo, R.J., see Jakoi, E.R. (693) 124
DeLorenzo, R.J., see Limbrick Jr., D.D. (690) 145
Del Río, M.R. and DeFelipe, J.
A light and electron microscopic study of calbindin D-28k immunoreactive double

bouquet cells in the human temporal cortex (690) 133
Del Río-Portilla, I., see Juárez, J. (694) 21
Delville, Y. and Ferris, C.F.
Sexual differences in vasopressin receptor binding within the ventrolateral hypothalamus in golden hamsters (681) 91
Delville, Y., Conklin, L.S. and Ferris, C.F.
Differential expression of vasopressin receptor binding in the hypothalamus during lactation in golden hamsters (689) 147
Demêmes, D., Lleixa, A. and Dechesne, C.J.
Cellular and subcellular localization of AMPA-selective glutamate receptors in the mammalian peripheral vestibular system (671) 83
De Miguel, R., see Romero, J. (694) 223
Demotes-Mainard, J., see Henry, C. (685) 179
Dempesy, C.W., Richardson, D.E. and Fontana, C.J.
Sympathetically-mediated cardiovascular responses induced by neurochemical microinjection in the brainstem lateral tegmental field of cat (704) 141
Dempsey, R.J., see Dhillon, H.S. (698) 100
Demura, H., see Shibasaki, T. (670) 169
Demura, H., see Shibasaki, T. (688) 189
Denavit-Saubié, M., see Cassus-Soulanis, S. (679) 25
Denbow, D.M., see Choi, Y.-H. (699) 161
Dencoff, J.E., see Rosenberg, G.A. (703) 151
Denenberg, V.H., see Mack, C.M. (697) 152
Denenberg, V.H., see Rosen, G.D. (681) 177
Denker, M., see Phelps, C.P. (688) 193
De Oliveira, A.M., Viswanathan, M., Heemskerk, F.M.J. and Saavedra, J.M.
Expression of a novel angiotensin II receptor subtype in gerbil brain (705) 177
De Potter, W., see Quatacker, J. (680) 36
Derby, C.D., see Simon, T.W. (678) 213
De Riel, J.K., see Chen, X.-H. (688) 237
Derugin, N., see Roberts, T.P.L. (699) 51
De Saint Hilaire, Z., see Gerozissis, K. (689) 239
De Sarro, A., see De Sarro, G. (671) 131
De Sarro, G., Ammendola, D., Nava, F. and De Sarro, A.
Effects of some excitatory amino acid antagonists on imipenem-induced seizures in DBA/2 mice (671) 131
Desaulles, E., Reiter, M.K. and Feltz, P.
Electrophysiological evidence for oxytocin receptors on sympathetic preganglionic neurones — an in vitro study on the neonatal rat (699) 139
Descarries, L., see Mrini, A. (669) 303
Deschênes, M., Bourassa, J. and Parent, A.
Two different types of thalamic fibers innervate the rat striatum (701) 288
Deschênes, M., see Pinault, D. (670) 147
Deschepper, C.F., see Roisin, M.-P. (701) 297
Desiato, M.T., see Rossini, P.M. (676) 314
Desmond, N.L., see Klintsova, A. (690) 269
Desmonts, J.-M., see Lecharny, J.-B. (670) 308
De Souza, E.B., see Behan, D.P. (698) 259
De Souza, E.B., see Takao, T. (688) 219
Despres, G., see Jalenques, I. (686) 223
Dettbarn, C., Betto, R., Salviati, G., Sabbadini, R. and Palade, P.
Involvement of ryanodine receptors in sphingosylphosphorylcholine-induced calcium release from brain microsomes (669) 79
Deura, S., see Katoh, Y.Y. (669) 298
De Vellis, J., see Kahn, M.A. (685) 55
Devesa, A., see O'Connor, E. (680) 157
Devi, L., see Berman, Y. (685) 129
Devillers, J.-P., Boisserie, F., Laulin, J.-P., Larcher, A. and Simonnet, G.
Simultaneous activation of spinal antiopioid system (neuropeptide FF) and pain facilitatory circuitry by stimulation of opioid receptors in rats (700) 173
De Villiers, A., see Russell, V. (676) 343
Devine, J.O. and Armstead, W.M.
The role of nitric oxide in opioid-induced pial artery vasodilation (675) 257
Devon, R. and Doucette, R.
Olfactory ensheathing cells do not require L-ascorbic acid in vitro to assemble a basal lamina or to myelinate dorsal root ganglion neurites (688) 223
Dewar, D. and Dawson, D.
Tau protein is altered by focal cerebral ischaemia in the rat: an immunohistochemical and immunoblotting study (684) 70
De Wied, D., see Chepkova, A.N. (701) 255
De Wied, D., see Isaacson, R.L. (689) 79
De Yébenes, J.G., see Pardo, B. (682) 133
Dhillon, H.S., Carbary, T., Dose, J., Dempsey, R.J. and Prasad, M.R.
Activation of phosphatidylinositol bisphosphate signal transduction pathway after experimental brain injury: a lipid study (698) 100
Di, S., see Barth, D.S. (678) 177
Diana, G., Domenici, M.R., Scotti de Carolis, A., Loizzo, A. and Sagratella, S.
Reduced hippocampal CA1 Ca^{2+}-induced long-term potentiation is associated with age-dependent impairment of spatial learning (686) 107
Diana, M., Pistis, M., Muntoni, A.L. and Gessa, G.L.
Ethanol withdrawal does not induce a reduction in the number of spontaneously active dopaminergic neurons in the mesolimbic system (682) 29
Dickenson, A.H., see Chapman, V. (703) 45
Dickie, B.G.M., see Gabbott, P.L.A. (698) 253
Didion, S.P., see Mayhan, W.G. (696) 106
Dietrich, W.D., see Green, E.J. (702) 145
Dietrich, W.D., see Pazos, A.J. (689) 224
Díez-Tejedor, E., see Avendaño, C. (673) 83
Dijk, D.-J., see Landolt, H.-P. (675) 67
DiLoreto Jr., D.A., Martzen, M.R., Del Cerro, C., Coleman, P.D. and Del Cerro, M.
Müller cell changes precede photoreceptor cell degeneration in the age-related retinal degeneration of the Fischer 344 rat (698) 1
Di Menza, C., see Permanne, B. (685) 154
Dimitrijević, M., see Laban, O. (676) 133
Ding, Y.-Q., Takada, M., Shigemoto, R. and Mizuno, N.
Spinoparabrachial tract neurons showing substance P receptor-like immunoreactivity in the lumbar spinal cord of the rat (674) 336
Diosy, D., see McIntyre Burnham, W. (698) 180
Diotte, M., see Anderson, R. (688) 15
Di Paolo, T., see Calon, F. (680) 43
Di Paolo, T., see Rivest, R. (692) 269
Di Pasquale, E., Monteau, R., Hilaire, G. and Iscoe, S.
Effects of ethanol on respiratory activity in the neonatal rat brainstem-spinal cord preparation (695) 271
DiPette, D.J., see Supowit, S.C. (686) 77
Dirks, B., see Follett, K.A. (669) 157
Dirnagl, U., see Schreiber, S.J. (703) 227
Di Scala, G., see Brailowsky, S. (702) 126
Di Scala, G., see Silveira, M.C.L. (674) 265
DiStefano, L., see Schneider, J.S. (674) 260
DiStefano, P.S., see Ohara, S. (699) 143
Dixon, C.E., see Whitson, J.S. (694) 213
Dluzen, D.E., see McDermott, J.L. (698) 248
D'Mello, S.R., see Levick, V. (676) 325
Dobrenis, K., Makman, M.H. and Stefano, G.B.
Occurrence of the opiate alkaloid-selective μ_3 receptor in mammalian microglia, astrocytes and Kupffer cells (686) 239
Dohanich, G.P., see Menard, C.S. (669) 255
Dombro, R.S., see Itzhak, Y. (705) 345
Domenici, M.R., see Diana, G. (686) 107
Domoto, T., see Yasui, Y. (674) 122
Donati, E., see Maggio, R. (679) 184
Donatini, A., see Romualdi, P. (672) 42
Donato, R., see Sorci, G. (683) 51
DonCarlos, L.L., see Sisk, C.L. (688) 198
Dong, K., Qu, T., Ahmed, A.K.M.F., Setsu, T., Sugioka, K. and Yamadori, T.
Bifurcated projections of retinal ganglion cells bilaterally innervate the lateral geniculate nuclei in the cat (703) 231
Dong, K., see Farid Ahmed, A.K.M. (674) 275
Dong, K., see Farid Ahmed, A.K.M. (704) 307
Dong, W.K., see Chudler, E.H. (674) 33
Donohue, S.J., see Bernard, M. (696) 37
Doolette, D.J. and Kerr, D.I.B.
Hyperexcitability in CA_1 of the rat hippocampal slice following hypoxia or adenosine (677) 127
Dose, J., see Dhillon, H.S. (698) 100
Doshi, R., see Lehning, E.J. (694) 158
Dou, D., see Joseph, R. (690) 92
Double, K.L., see Lee, C.Y. (681) 205
Doucette, R., see Devon, R. (688) 223
Dougall, W., see Stieber, A. (700) 261
Dougherty, K.D., see Walsh, T.J. (702) 233
Downes, H., see McCall, A.L. (670) 29
Doyle, P., Cusin, I., Rohner-Jeanrenaud, F. and Jeanrenaud, B.
Four-day hyperinsulinemia in euglycemic conditions alters local cerebral glucose utilization in specific brain nuclei of freely moving rats (684) 47
Dray, A., see Nagy, I. (703) 223
Dreifuss, J.J., see Arsenijevic, Y. (698) 275
Dresse, A., see Seutin, V. (683) 275
Driscoll, H.K., see Leidy, Jr., J.W. (681) 84

Drucker-Colín, R., see Merchant-Nancy, H. (681) 15
Dryden, S., Pickavance, L., Frankish, H.M. and Williams, G.
Increased neuropeptide Y secretion in the hypothalamic paraventricular nucleus of obese (*fa/fa*) Zucker rats (690) 185
Dryden, S., Wang, Q., Frankish, H.M., Pickavance, L. and Williams, G.
The serotonin (5-HT) antagonist methysergide increases neuropeptide Y (NPY) synthesis and secretion in the hypothalamus of the rat (699) 12
Dryden, S., see Frankish, H.M. (694) 139
D'sa, C., see Bannon, M.J. (695) 19
D'Souza, S., see Prabhakar, S. (672) 159
Du, H., see Liu, K.J. (685) 91
Du, J.-S., see Fok-Seang, J. (689) 207
Du, X., Stull, N.D. and Iacovitti, L.
Brain-derived neurotrophic factor works coordinately with partner molecules to initiate tyrosine hydroxylase expression in striatal neurons (680) 229
Duarte, C.B., see Carvalho, C.M. (669) 234
Duarte, C.B., see Malva, J.O. (696) 242
Dube, M.G., Kalra, P.S., Crowley, W.R. and Kalra, S.P.
Evidence of a physiological role for neuropeptide Y in ventromedial hypothalamic lesion-induced hyperphagia (690) 275
Dubner, R., see Ren, K. (699) 286
Dubrovina, N.I. and Ilyutchenok, R.Yu.
Effect of Leu-enkephalin on the memory reactivation produced by blockade of the benzodiazepine/GABA-chloride ionophore receptor complex (670) 347
Dubuc, R., see Viana Di Prisco, G. (695) 76
Duckrow, R.B.
Decreased cerebral blood flow during acute hyperglycemia (703) 145
Dudek, F.E., see Bouskila, Y. (670) 333
Dudley, C.A. and Moss, R.L.
Electrophysiological evidence for glutamate as a vomeronasal receptor cell neurotransmitter (675) 208
Duelli, R., see Zeller, K. (698) 175
Duffin, J. and Van Alphen, J.
Bilateral connections from ventral group inspiratory neurons to phrenic motoneurons in the rat determined by cross-correlation (694) 55
Duffy, P., see Kalivas, P.W. (675) 325
Dufy, B., see Boué-Grabot, E. (704) 125
Duggan, A.W., see Furmidge, L.J. (679) 241
Duncan, G.E., see McCown, T.J. (701) 117
Dunlop, D.S., see Kenessey, A. (675) 183
Dunn, J.F., see Liu, K.J. (685) 91
Dunn-Meynell, A., see Levin, B.E. (674) 307
Dunn-Meynell, A.A. and Levin, B.E.
Lateralized effect of unilateral somatosensory cortex contusion on behavior and cortical reorganization (675) 143
Duong, H., see Johnson, B.A. (699) 192
Dutova, E., see Weiss, M. (695) 105
Dworkin, S.I., Co, C. and Smith, J.E.
Rat brain neurotransmitter turnover rates altered during withdrawal from chronic cocaine administration (682) 116
Dziewiatkowska, A., see Wegiel, J. (705) 225
Dziewiatkowski, J., see Wegiel, J. (705) 225

E

Earle, M.L. and Pittman, Q.J.
Involvement of the PVN and BST in 1K1C hypertension in the rat (669) 41
Eastwood, S.L., see Burnet, P.W.J. (676) 157
Eaton, M.J., see Wagner, C.K. (677) 229
Eaton, S.J., Cote, N.K. and Harrington, M.E.
Histamine synthesis inhibition reduces light-induced phase shifts of circadian rhythms (695) 227
Eberhard, J., see Nikkhah, G. (687) 22
Ebersberger, A., Anton, F., Tölle, T.R. and Zieglgänsberger, W.
Morphine, 5-HT_2 and 5-HT_3 receptor antagonists reduce c-*fos* expression in the trigeminal nuclear complex following noxious chemical stimulation of the rat nasal mucosa (676) 336
Ebert, U. and Löscher, W.
Strong induction of c-*fos* in the piriform cortex during focal seizures evoked from different limbic brain sites (671) 338
Eckert, A., see Müller, W.E. (674) 133
Eckhorn, R., see Bauer, R. (669) 291
Edelstein, K. and Amir, S.
Non-photic manipulations induce expression of Fos protein in the suprachiasmatic nucleus and intergeniculate leaflet in the rat (690) 254
Edelstein, K., Pfaus, J.G., Rusak, B. and Amir, S.
Neonatal monosodium glutamate treatment prevents effects of constant light on circadian temperature rhythms of adult rats (675) 135
Edgerton, V.R., see Ishihara, A. (676) 212
Edmo, D., see Babcock, A.M. (705) 307
Edrich, J., see Kristeva-Feige, R. (682) 22
Edström, A., Ekström, P. and Wiklund, P.
Moderate elevation of extracellular potassium transiently inhibits regeneration of sensory axons in cultured adult sciatic nerves (693) 148
Edwards, P.C., see Ruben, G.C. (675) 1
Egashira, T., see Ikeda, K. (688) 171
Eggen, B.J.L., Brandsma, D., Kasperaitis, M., Gispen, W.H. and Schrama, L.H.
Rat B-50 gene transcription and translation (690) 73
Egilmez, Y., Jung, M.E., Lane, J.D. and Emmett-Oglesby, M.W.
Dopamine release during cocaine self-administration in rats: effect of SCH23390 (701) 142
Ehret, G., see Scharmann, M.G. (682) 83
Eilon, G., see Oliff, H.S. (675) 20
Ekström, P., see Edström, A. (693) 148
El-Mas, M.M. and Abdel-Rahman, A.A.
Upregulation of imidazoline receptors in the medulla oblongata accounts for the enhanced hypotensive effect of clonidine in aortic barodenervated rats (691) 195
Elaagouby, A., see Mouly, A.-M. (681) 47
Elahi, R., see Gruen, R.J. (684) 112
Elenkov, I.J., see Bencsics, A. (705) 302
El Kafi, B., Leger, L., Seguin, S., Jouvet, M. and Cespuglio, R.
Sleep permissive components within the dorsal raphe nucleus in the rat (686) 150
Ellenberger, E.A., see Hara, S. (675) 190
Ellenbroek, B.A., see Prinssen, E.P.M. (673) 283
Ellison, G.D., see Lipton, J.W. (676) 378
Ellison, J.A., see Kahn, M.A. (685) 55
Elmered, A., see Blomgren, K. (684) 143
Emery, D.G. and Lucas, J.H.
Ultrastructural damage and neuritic beading in cold-stressed spinal neurons with comparisons to NMDA and A23187 toxicity (692) 161
Emmerling, M.R., see Frackowiak, J. (676) 225
Emmett, C.J., Aswani, S.P., Stewart, G.R., Fairchild, D. and Johnson, R.M.
Dose–response comparison of recombinant human nerve growth factor and recombinant human basic fibroblast growth factor in the fimbria fornix model of acute cholinergic degeneration (673) 199
Emmett, C.J., see Roberts, T.P.L. (699) 51
Emmett-Oglesby, M.W., see Egilmez, Y. (701) 142
Emory, C.R., see Thorne, R.G. (692) 278
Empson, R.M., see Schmitz, D. (701) 249
Emson, P.C., see Hanesch, U. (700) 279
Endo, K., see Yates, B.J. (689) 197
Endo, T., see Hara, S. (675) 190
Engber, T.M., see Papa, S.M. (701) 13
Engelberts, D., see Coceani, F. (700) 191
Engelhardt, J.K., Morales, F.R., Castillo, P.E., Pedroarena, C., Pose, I. and Chase, M.H.
Experimental analysis of the method of 'peeling' exponentials for measuring passive electrical properties of mammalian motoneurons (675) 241
Engelmann, M., see Kalsbeek, A. (682) 75
Engle, M.G., see Watson, Jr., R.E. (689) 254
Engler, H.D., see Yurdaydin, C. (679) 42
Ennulat, D.J., see Wan, W. (688) 95
Enomoto, R., see Yoneda, Y. (679) 15
Epstein, C., see Hirata, H. (677) 345
Eriksson, P., see Ahlbom, J. (677) 13
Eriksson, P., see Puka-Sundvall, M. (705) 65
Erne, S., see Kristeva-Feige, R. (682) 22
Eschalier, A., see Ardid, D. (695) 253
Escott, K.J., Beattie, D.T., Connor, H.E. and Brain, S.D.
Trigeminal ganglion stimulation increases facial skin blood flow in the rat: a major role for calcitonin gene-related peptide (669) 93
Espino, A., Cutillas, B., Tortosa, A., Ferrer, I., Bartrons, R. and Ambrosio, S.
Chronic effects of single intrastriatal injections of 6-hydroxydopamine or 1-methyl-4-

phenylpyridinium studied by microdialysis in freely moving rats (695) 151
Espino, A., Llorens, J., Calopa, M., Bartrons, R., Rodriguez-Farré, E. and Ambrosio, S.
Cerebrospinal dopamine metabolites in rats after intrastriatal administration of 6-hydroxydopamine or 1-methyl-4-phenylpyridinium ion. (669) 19
Esteban, M.J., see Iribar, C. (687) 211
Estrada, E.Y., see Rosenberg, G.A. (703) 151
Etcheberrigaray, R., see Luo, Y.Q. (681) 65
Eterović, V.A., see Ferchmin, P.A. (689) 189
Etgen, A.M.
Oxytocin does not act locally in the hypothalamus to elicit norepinephrine release (703) 242
Etgen, A.M., see Karkanias, G.B. (674) 26
Eugenín, J. and Alvarez, J.
Incorporation of amino acids into the axoplasm is enhanced by electrical stimulation of the fiber (677) 319
Eusebi, F., see Lorenzon, P. (703) 100
Evans, J.E., see Miller, M.L. (669) 1
Ewert, J.-P., see Schwippert, W.W. (669) 150
Ewing, A.G., see Chen, G. (701) 167
Ewing, J.F. and Maines, M.D.
Immunohistochemical localization of biliverdin reductase in rat brain: age related expression of protein and transcript (672) 29
Eyer, C.L., see Pavlaković, G. (676) 205
Eyzaguirre, C., see Zhang, X.-Q. (676) 413

F

Fà, M., see Marrosu, F. (671) 329
Fabian, I. and Ableitner, A.
Brain sites involved in μ-opioid receptor-mediated actions: a 2-deoxyglucose study (697) 205
Faden, A.I., see Sun, F.-Y. (673) 133
Faden, A.I., see Sun, F.-Y. (693) 163
Fadlallah, N., Guy, N., Teillet, M.-A., Schuler, B., Le Douarin, N.M., Naquet, R. and Batini, C.
Brain chimeras for the study of an avian model of genetic epilepsy: structures involved in sound and light-induced seizures (675) 55
Faggin, B.M., see Caldwell, J.D. (693) 225
Fahey, J.M., Lindquist, D.G., Pritchard, G.A. and Miller, L.G.
Pregnenolone sulfate potentiation of NMDA-mediated increases in intracellular calcium in cultured chick cortical neurons (669) 183
Fahrenkrug, J., see Zhang, Q. (705) 149
Faille, L., see Angaut-Petit, D. (681) 213
Faingold, C.L. and Randall, M.E.
Pontine reticular formation neurons exhibit a premature and precipitous increase in acoustic responses prior to audiogenic seizures in genetically epilepsy-prone rats (704) 218
Fairchild, D., see Emmett, C.J. (673) 199
Faissner, A., see Fok-Seang, J. (689) 207
Falardeau, P., see Rivest, R. (692) 269
Falkenberg, T., see Stiller, C.-O. (699) 231
Fallet-Bianco, C., see Permanne, B. (685) 154
Fan, P., Oz, M., Zhang, L. and Weight, F.F.
Effect of cocaine on the 5-HT_3 receptor-mediated ion current in *Xenopus* oocytes (673) 181
Fan, S.-f. and Crain, S.M.
Dual regulation by μ, δ and κ opioid receptor agonists of K^+ conductance of DRG neurons and neuroblastoma × DRG neuron hybrid F11 cells (696) 97
Fang, J., Payne, L. and Krueger, J.M.
Pituitary adenylate cyclase activating polypeptide enhances rapid eye movement sleep in rats (686) 23
Fang, J., see Takahashi, S. (690) 241
Fara-On, M., see Harley, C.W. (685) 217
Fargeas, M.-J., see Castex, N. (688) 149
Farid Ahmed, A.K.M., Dong, K. and Yamadori, T.
A retrograde double-labeling study of uni- and bilaterally projecting retinal ganglion cells that project to the superior colliculi after unilateral eye removal at birth in the albino rat (704) 307
Farid Ahmed, A.K.M., Dong, K. and Yamadori, T.
A retrograde double-labelling study of retinal ganglion cells that project ipsilaterally to vLGN and LPN rather than dLGN and SC, in albino rat (674) 275
Farkas-Szallasi, T., see Szallasi, A. (703) 175
Farnesi, R.M., see Vagnetti, D. (705) 295
Fasolo, A., see Collin, F. (703) 111
Fatima-Shad, K. and Barry, P.H.
Heterogeneous current responses to GABA and glycine are present in post-natally cultured hippocampal neurons (704) 246
Faucheux, B.A., Herrero, M.T., Villares, J., Levy, R., Javoy-Agid, F., Obeso, J.A., Hauw, J.J., Agid, Y. and Hirsch, E.C.
Autoradiographic localization and density of [^{125}I]ferrotransferrin binding sites in the basal ganglia of control subjects, patients with Parkinson's disease and MPTP-lesioned monkeys (691) 115
Faucheux, B.A., see Thibaut, F. (692) 233
Fawcett, J.W., see Fok-Seang, J. (689) 207
Fehlings, M.G. and Nashmi, R.
Assessment of axonal dysfunction in an in vitro model of acute compressive injury to adult rat spinal cord axons (677) 291
Feinmark, S.J., see Abe, M. (683) 200
Felipo, V., see Marcaida, G. (695) 146
Feltz, P., see Desaulles, E. (699) 139
Feng, P.-F., Bergmann, B.M. and Rechtschaffen, A.
Sleep deprivation in rats with preoptic/anterior hypothalamic lesions (703) 93
Ferbinteanu, J., see Milgram, N.W. (670) 112
Ferchmin, P.A., Eterović, V.A., Rivera, E.M. and Teyler, T.J.
Spermine increases paired-pulse facilitation in area CA1 of hippocampus in a calcium-dependent manner (689) 189
Fergus, A., Jin, Y., Thai, Q.-A., Kassell, N.F. and Lee, K.S.
Vasodilatory actions of calcitonin gene-related peptide and nitric oxide in parenchymal microvessels of the rat hippocampus (694) 78
Ferin, M., see Sullivan, K.A. (685) 198
Fernald, R.D., see Chiu, J.F. (673) 119
Fernandez-Cruz, A., see De Juan, J.A. (690) 25
Fernandez-Durango, R., see De Juan, J.A. (690) 25
Fernández-Guardiola, A., see De Gortari, P. (679) 144
Fernández-Guasti, A., see Picazo, O. (680) 135
Fernández, H., see Ågmo, A. (696) 177
Fernández-Ruiz, J., see Vela, G. (680) 142
Fernández-Ruiz, J.J., see Romero, J. (694) 223
Fernandez-Vera, J.R., see Mas, M. (675) 13
Fernstrom, J.D., see Fernstrom, M.H. (672) 97
Fernstrom, M.H. and Fernstrom, J.D.
Effect of chronic protein ingestion on rat central nervous system tyrosine levels and in vivo tyrosine hydroxylation rate (672) 97
Ferrándiz, M.L., see Martínez, M. (673) 149
Ferreira, I.L., see Carvalho, C.M. (669) 234
Ferrer, I., Soriano, M.A., Vidal, A. and Planas, A.M.
Survival of parvalbumin-immunoreactive neurons in the gerbil hippocampus following transient forebrain ischemia does not depend on HSP-70 protein induction (692) 41
Ferrer, I., see Espino, A. (695) 151
Ferrer, I., see Planas, A.M. (700) 289
Ferrer, I., see Soriano, M.A. (670) 317
Ferretti, C., see Ghi, P. (690) 104
Ferri, S., see Candeletti, S. (670) 289
Ferri, S., see Romualdi, P. (672) 42
Ferris, C.F., see Delville, Y. (681) 91
Ferris, C.F., see Delville, Y. (689) 147
Feuerstein, C., see Roudet, C. (677) 1
Fibiger, H.C., see Pfaus, J.G. (693) 21
Fields, A., Gafni, M., Oron, Y. and Sarne, Y.
Multiple effects of opiates on intracellular calcium level and on calcium uptake in three neuronal cell lines (687) 94
Finch, D.M., Gigg, J., Tan, A.M. and Kosoyan, O.P.
Neurophysiology and neuropharmacology of projections from entorhinal cortex to striatum in the rat (670) 233
Finlay, J.M., see King, D. (685) 117
Finnerty, B.C., see Schneider, J.E. (698) 107
Finnman, U.-B., see Li, X.-M. (679) 157
Fior, D.R., Yang, S.-N., Ganten, U., Ganten, D. and Fuxe, K.
Evidence for a differential modulation of the alpha-2 adrenoceptors by angiotensin II in the nucleus tractus solitarii of the sponta-

neously hypertensive and the Wistar–Kyoto normotensive rats (679) 168
Fioramonti, J., see Castex, N. (688) 149
Firth, B.T., see Moyer, R.W. (675) 345
Fischer, G., see Strasser, U. (687) 167
Fischer, J.E., see Chance, W.T. (691) 180
Fishman, M.C., see Darius, S. (690) 231
Fiskum, G., see Hurt, K.J. (673) 226
Fix, A.S., Wozniak, D.F., Truex, L.L., McEwen, M., Miller, J.P. and Olney, J.W.
Quantitative analysis of factors influencing neuronal necrosis induced by MK-801 in the rat posterior cingulate/retrosplenial cortex (696) 194
Flanagan-Cato, L.M. and Fluharty, S.J.
Guanine nucleotide regulation and cation sensitivity of agonist binding to rat brain oxytocin receptors (701) 75
Flanagan-Cato, L.M. and McEwen, B.S.
Pattern of Fos and Jun expression in the female rat forebrain after sexual behavior (673) 53
Flaris, N.A., Shindler, K.S., Kotzbauer, P.T., Chand, P., Ludwig, C.P., Konstantinidou, A.D. and Roth, K.A.
Developmentally-regulated lectin binding in the embryonic mouse telencephalon (678) 99
Flash, D.O., see Salazar, B.C. (699) 305
Fleischmann, A., Prolov, K., Abarbanel, J. and Belmaker, R.H.
The effect of transcranial magnetic stimulation of rat brain on behavioral models of depression (699) 130
Fleming, W.W., see Gould, E.M. (698) 62
Fletcher, P.J.
Effects of combined or separate 5,7-dihydroxytryptamine lesions of the dorsal and median raphe nuclei on responding maintained by a DRL 20s schedule of food reinforcement (675) 45
Flügge, G., see Fuchs, E. (673) 275
Fluharty, S.J., see Flanagan-Cato, L.M. (701) 75
Flynn, E.J., see Brightman, T. (678) 110
Fodor, M., Gallatz, K. and Palkovits, M.
Calcitonin gene-related peptide innervation of A2-catecholamine cells in the nucleus of the solitary tract of the rat (690) 141
Foidart, A., Tlemçani, O., Harada, N., Abe-Dohmae, S. and Balthazart, J.
Pre- and post-translational regulation of aromatase by steroidal and non-steroidal aromatase inhibitors (701) 267
Fok-Seang, J., Smith-Thomas, L.C., Meiners, S., Muir, E., Du, J.-S., Housden, E., Johnson, A.R., Faissner, A., Geller, H.M., Keynes, R.J., Rogers, J.H. and Fawcett, J.W.
An analysis of astrocytic cell lines with different abilities to promote axon growth (689) 207
Folbergrová, J.
Glycogen phosphorylase activity in the cerebral cortex of rats during development: effect of homocysteine-induced seizures (694) 128
Follett, K.A. and Dirks, B.
Responses of neurons in ventrolateral orbital cortex to noxious visceral stimulation in the rat (669) 157
Fonseca, M. and Soriano, E.
Calretinin-immunoreactive neurons in the normal human temporal cortex and in Alzheimer's disease (691) 83
Fontana, C.J., see Dempesy, C.W. (704) 141
Fontenot, M.B., Kaplan, J.R., Manuck, S.B., Arango, V. and Mann, J.J.
Long-term effects of chronic social stress on serotonergic indices in the prefrontal cortex of adult male cynomolgus macaques (705) 105
Fordyce, D.E., Clark, V.J., Paylor, R. and Wehner, J.M.
Enhancement of hippocampally-mediated learning and protein kinase C activity by oxiracetam in learning-impaired DBA/2 mice (672) 170
Forsell, C., see Garlind, A. (681) 160
Forss, N., Jousmäki, V. and Hari, R.
Interaction between afferent input from fingers in human somatosensory cortex (685) 68
Foster, E., Risling, M. and Fried, K.
TrkB-like immunoreactivity in trigeminal sensory nerve fibers of the rat molar tooth pulp: development and response to nerve injury (686) 123
Foster, G.A., see Kikvadze, I. (692) 111
Foster, R.G., see Provencio, I. (694) 183
Fournier, A., see Garcia de Yebenes, E. (674) 112
Foutz, A.S., see Cassus-Soulanis, S. (679) 25
Fowler, C.J., see Garlind, A. (681) 160
Fowler, L.J., see Biggs, C.S. (684) 172
Frackowiak, J., Mazur-Kolecka, B., Wisniewski, H.M., Potempska, A., Carroll, R.T., Emmerling, M.R. and Kim, K.S.
Secretion and accumulation of Alzheimer's β-protein by cultured vascular smooth muscle cells from old and young dogs (676) 225
Frackowiak, J., see Mazur-Kolecka, B. (698) 217
Franceschetti, S., Guatteo, E., Panzica, F., Sancini, G., Wanke, E. and Avanzini, G.
Ionic mechanisms underlying burst firing in pyramidal neurons: intracellular study in rat sensorimotor cortex (696) 127
Francis, D., see O'Donnell, D. (687) 133
Franck, J., see Stiller, C.-O. (699) 231
Frankfurt, M., McKittrick, C.R., McEwen, B.S. and Luine, V.N.
Tianeptine treatment induces regionally specific changes in monoamines (696) 1
Frankish, H.M., Dryden, S., Wang, Q., Bing, C., MacFarlane, I.A. and Williams, G.
Nicotine administration reduces neuropeptide Y and neuropeptide Y mRNA concentrations in the rat hypothalamus: NPY may mediate nicotine's effects on energy balance (694) 139
Frankish, H.M., see Dryden, S. (690) 185
Frankish, H.M., see Dryden, S. (699) 12
Frankland, P.W., Scott, B.W. and Yeomans, J.S.
Axons and synapses mediating electrically evoked startle: collision tests and latency analysis (670) 97
Fratti, S., see Pazzagli, M. (684) 103
Frazier, D.T., see Xu, F. (705) 53
Fredriksson, A., see Ahlbom, J. (677) 13
Freed, L.M., see Wakabayashi, S. (679) 110
Freedman, R., see Breese, C.R. (674) 82
Freeman, A.S., see Hamilton, M.E. (688) 134
Freeman, L.M. and Breedlove, S.M.
Motoneurons innervating guinea pig perineal muscles are sexually dimorphic in size but not number (690) 1
Freeman, T.B., see Borlongan, C.V. (697) 254
Fregly, M.J., see Rowland, N.E. (669) 73
Fregly, M.J., see Rowland, N.E. (675) 127
French, A.S., see Seyfarth, E.-A. (683) 93
French, P., see Chepkova, A.N. (701) 255
Freo, U., Pietrini, P., Pizzolato, G., Furey-Kurkjian, M., Merico, A., Ruggero, S., Dam, M. and Battistin, L.
Dose-dependent effects of buspirone on behavior and cerebral glucose metabolism in rats (677) 213
Freyaldenhoven, T.E., Ali, S.F. and Hart, R.W.
MPTP- and MPP^+-induced effects on body temperature exhibit age- and strain-dependence in mice (688) 161
Frey II, W.H., see Thorne, R.G. (692) 278
Friauf, E., see Koch, M. (671) 63
Fride, E.
Anandamides: tolerance and cross-tolerance to Δ^9-tetrahydrocannabinol (697) 83
Friden, P.M., see Sanovich, E. (705) 125
Fried, K., see Foster, E. (686) 123
Friedhoff, A.J., see Gruen, R.J. (684) 112
Friedman, M.A., see Reagan, K.E. (671) 12
Frim, D.M., see Yoshimoto, Y. (691) 25
Fritschy, J.-M., see Gao, B. (700) 142
Fritschy, J.-M., see Härtig, W. (692) 215
Fritz-Zieroth, B., see Ono, J. (671) 141
Frost Jr., J.D., see Lee, C.L. (677) 97
Frye, C.A.
The neurosteroid 3α,5α-THP has anti-seizure and possible neuroprotective effects in an animal model of epilepsy (696) 113
Fuchs, E., Uno, H. and Flügge, G.
Chronic psychosocial stress induces morphological alterations in hippocampal pyramidal neurons of the tree shrew (673) 275
Fuentes, J.A., see Vela, G. (680) 142
Fugaro, C., see Laemle, L.K. (688) 203
Führmann, E., see Schmoll, D. (677) 341
Fujii, K., see He, Z. (699) 208
Fujii, N., see Tsuzuki, K. (699) 260
Fujimoto, K. and Hisaichi, M.
Fenestrated capillaries in subarachnoid space in the caudal spinal cord of the premature rat: an electron microscopic observation (702) 284
Fujimoto, K.-i., see Yamada, H. (677) 333
Fujimoto, S., see Shimohama, S. (699) 125
Fujimura, M., see Saito, T. (695) 240
Fujishima, M., see He, Z. (699) 208

Fujishiro, N., see Inoue, M. (687) 199
Fujita, T., see Saito, R. (699) 109
Fujita, T., see Saito, S. (673) 93
Fujiwara, T., see Araki, T. (704) 227
Fujiyama, F., see Matsuo, M. (685) 201
Fukagawa, K., see Okumura, T. (673) 153
Fukami, K., see Shimohama, S. (669) 217
Fukatsu, R., see Tsuzuki, K. (699) 260
Fukiyama, K., see Sesoko, S. (671) 38
Fukuda, S.-i., Takaichi, S., Naritomi, H., Hashimoto, N., Nagata, I., Nozaki, K. and Kikuchi, H.
Ultrastructural localization and translocation of nitric oxide synthase in the endothelium of the human cerebral artery (696) 30
Fukudo, S., Abe, K., Hongo, M., Utsumi, A. and Itoyama, Y.
Psychophysiological stress induces heat shock cognate protein (HSC)70 mRNA in the cerebral cortex and stomach of rats (675) 98
Fukui, Y., see Hisano, S. (676) 409
Fukumaki, Y., see Iwaki, T. (673) 47
Fukumori, R., see Kubo, T. (686) 1
Fukuuchi, Y., see Kobari, M. (698) 95
Fumagalli, F., see Maggio, R. (679) 184
Fumero, B., see Mas, M. (675) 13
Furey-Kurkjian, M., see Freo, U. (677) 213
Furmidge, L.J., Duggan, A.W. and Arbuthnott, G.W.
In vivo detection of immunoreactive neurokinin A release within rat substantia nigra and its dependency on a dopaminergic input (679) 241
Furukawa, K. and Mattson, M.P.
Taxol stabilizes $[Ca^{2+}]_i$ and protects hippocampal neurons against excitotoxicity (689) 141
Furukawa, K., see Sorimachi, M. (696) 67
Furukawa, T., see Shibata, K. (692) 71
Furuse, M., see Choi, Y.-H. (699) 161
Fuxe, K., see Agnati, L.F. (676) 10
Fuxe, K., see Aguirre, J.A. (684) 159
Fuxe, K., see Fior, D.R. (679) 168
Fuxe, K., see Li, X.-M. (679) 157
Fuxe, K., see Li, X.-M. (684) 225
Fuxe, K., see Odagaki, Y. (689) 129

G

Gabbott, P.L.A. and Bacon, S.J.
Co-localisation of NADPH diaphorase activity and GABA immunoreactivity in local circuit neurones in the medial prefrontal cortex (mPFC) of the rat (699) 321
Gabbott, P.L.A., Dickie, B.G.M. and Bacon, S.J.
Dendritic spine density of NADPH diaphorase reactive neurons in the medial prefrontal cortex (mPFC) of the rat (698) 253
Gabilondo, A.M., Meana, J.J. and García-Sevilla, J.A.
Increased density of μ-opioid receptors in the postmortem brain of suicide victims (682) 245
Gabriel, J.M., see Schneider, J.E. (698) 107
Gafni, M., see Fields, A. (687) 94
Gagné, J., see Bernard, J. (671) 195
Galaburda, A.M., see Rosen, G.D. (681) 177
Galdzicki, Z., see Acevedo, L.D. (701) 89
Galdzicki, Z., see Pearce, R. (680) 108
Gall, C., see Bednarski, E. (694) 147
Gall, C.M., see Seroogy, K.B. (670) 157
Gallatz, K., see Fodor, M. (690) 141
Galler, J.R., see Shultz, P.L. (682) 35
Gallo, R.V., see Zhen, S. (698) 121
Gambetti, P., see Castellani, R. (696) 268
Gancher, S. and Mayer, A.
Sensitization to apomorphine-induced rotational behavior in 6-OHDA- lesioned rats: effects of NMDA antagonists on drug response (682) 63
Gandy, S.E., see Calingasan, N.Y. (677) 50
Ganguly, P.K., see Kirouac, G.J. (689) 245
Gannon, R.L., Cato, M.J., Kelley, K.H., Armstrong, D.L. and Rea, M.A.
GABAergic modulation of optic nerve-evoked field potentials in the rat suprachiasmatic nucleus (694) 264
Gannon, R.L., see Weber, E.T. (692) 137
Ganten, D., see Aguirre, J.A. (684) 159
Ganten, D., see Fior, D.R. (679) 168
Ganten, U., see Fior, D.R. (679) 168
Gao, B., Fritschy, J.-M. and Moore, R.Y.
$GABA_A$-receptor subunit composition in the circadian timing system (700) 142
Gao, X.-M., Margolis, R.L., Leeds, P., Hough, C., Post, R.M. and Chuang, D.-M.
Carbamazepine induction of apoptosis in cultured cerebellar neurons: effects of *N*-methyl-D-aspartate, aurintricarboxylic acid and cycloheximide (703) 63
García, A., see Agulló, L. (686) 160
García-Arrarás, J.E., see Maynard-Salgado, G. (676) 268
García, C., see O'Connor, E. (680) 157
García, F., see Merchant-Nancy, H. (681) 15
Garcia, M.M., Brown, H.E. and Harlan, R.E.
Alterations in immediate-early gene proteins in the rat forebrain induced by acute morphine injection (692) 23
Garcia, M.M., see Harlan, R.E. (692) 1
García-Ojeda, E., see Porteros, A. (689) 93
García-Palomero, E., see Romero, J. (694) 223
García-Sevilla, J.A., see Gabilondo, A.M. (682) 245
Garcia de Yebenes, E., Li, S., Fournier, A., St-Pierre, S. and Pelletier, G.
Regulation of proopiomelanocortin gene expression by neuropeptide Y in the rat arcuate nucleus (674) 112
Gardi, J., see Sarnyai, Z. (675) 89
Garey, L.J., see Yan, X.X. (669) 285
Garlind, A., Cowburn, R.F., Forsell, C., Ravid, R., Winblad, B. and Fowler, C.J.
Diminished $[^3H]$inositol(1,4,5)P_3 but not $[^3H]$inositol(1,3,4,5)P_4 binding in Alzheimer's disease brain (681) 160
Garner, C.C., see Seidel, B. (700) 13
Garraghty, P.E. and Muja, N.
Possible use-dependent changes in adult primate somatosensory cortex (686) 119
Garret, M., see Boué-Grabot, E. (704) 125
Garrett, E.N., see Sargent, P.B. (680) 99
Garrett, N.E., Kidd, B.L., Cruwys, S.C. and Tomlinson, D.R.
Changes in preprotachykinin mRNA expression and substance P levels in dorsal root ganglia of monoarthritic rats: comparison with changes in synovial substance P levels (675) 203
Garrett, N.E., see Kidd, B.L. (688) 72
Garyfallou, V.T., see Raitiere, M.N. (705) 159
Gash, D.M., see Kearns, C.M. (672) 104
Gass, P., see Bele, S. (704) 210
Gass, P., see Blendy, J.A. (681) 8
Gatti, P.J., Homby, P.J., Mandal, A.K., Norman, W.P., DaSilva, A.M.T. and Gillis, R.A.
Cardiovascular neurons in cat caudal ventrolateral medulla: location and characterization of GABAergic input (693) 80
Gatti, P.J., Shirahata, M., Johnson, T.A. and Massari, V.J.
Synaptic interactions of substance P immunoreactive nerve terminals in the baro- and chemoreceptor reflexes of the cat (693) 133
Gatti, P.J., see Massari, V.J. (679) 227
Gaudreau, P., see Lefrançois, L. (673) 39
Gautam, S.C., see Zhang, R.-L. (682) 182
Gautron, M., see Berkley, K.J. (695) 92
Gavin III, J.R., see Schechter, R. (670) 1
Gay, N., see Giaume, M. (675) 121
Gean, P.-W., see Hsu, K.-S. (690) 264
Gearhart, D., see Neafsey, E.J. (675) 279
Gebber, G.L., see Barman, S.M. (671) 345
Gebber, G.L., see Zhong, S. (670) 329
Gebhart, G.F., see Burton, M.B. (672) 77
Gebhart, G.F., see Traub, R.J. (701) 175
Geerts, H., see Nuydens, R. (688) 86
Geiger, J.D., see Delaney, S.M. (702) 72
Geiger, J.D., see Nath, A. (678) 200
Geller, E.B., see Chen, X.-H. (688) 237
Geller, H.M., see Fok-Seang, J. (689) 207
Gemba, H., Miki, N. and Sasaki, K.
Cortical field potentials preceding vocalization and influences of cerebellar hemispherectomy upon them in monkeys (697) 143
Gemba, H., see Ikeda, M. (690) 225
Gent, J.P., see Bentley, G.N. (673) 101
Georgiou, G.C., Sharp, P.J. and Lea, R.W.
$[^{14}C]$2-Deoxyglucose uptake in the brain of the ring dove (*Streptopelia risoria*). II. Differential uptake at the onset of incubation (700) 137
Georgiou, G.C., see Lea, R.W. (700) 129

Gerin, C., Becquet, D. and Privat, A.
Direct evidence for the link between monoaminergic descending pathways and motor activity. I. A study with microdialysis probes implanted in the ventral funiculus of the spinal cord (704) 191
Gerozissis, K., De Saint Hilaire, Z., Orosco, M., Rouch, C. and Nicolaïdis, S.
Changes in hypothalamic prostaglandin E_2 may predict the occurrence of sleep or wakefulness as assessed by parallel EEG and microdialysis in the rat (689) 239
Gerozissis, K., see Orosco, M. (671) 149
Gershfeld, N.L., see Ginsberg, L. (698) 223
Gerstberger, R., see Jurzak, M. (673) 349
Gerwin, C.M., see Jakoi, E.R. (693) 124
Gescuk, B.D., Lang, S. and Kornetsky, C.
Chronic escapable footshock causes a reduced response to morphine in rats as assessed by local cerebral metabolic rates (701) 279
Gessa, G.L., see Diana, M. (682) 29
Gessa, G.L., see Marrosu, F. (671) 329
Ghanta, V.K., see Hsueh, C.-M. (678) 76
Ghi, P., Ferretti, C. and Blengio, M.
Effects of different types of stress on histamine-H_3 receptors in the rat cortex (690) 104
Ghosh, R. and Sladek, C.D.
Prolactin modulates oxytocin mRNA during lactation by its action on the hypothalamo-neurohypophyseal axis (672) 24
Ghoshal, S., see Zhao, H.B. (700) 295
Giagheddu, M., see Marrosu, F. (671) 329
Giannuzzi, C.E., Seidler, F.J. and Slotkin, T.A.
β-Adrenoceptor control of cardiac adenylyl cyclase during development: agonist pretreatment in the neonate uniquely causes heterologous sensitization, not desensitization (694) 271
Giardino, L., Ceccatelli, S., Hökfelt, T. and Calza', L.
Expression of enkephalin and dynorphin precursor mRNAs in brain areas of hypo-and hyperthyroid rat: effect of kainic acid injection (687) 83
Giaume, M., Grange, E., Baubet, V., Gay, N., Sermet, E., Sarda, N. and Bobillier, P.
Cerebral protein synthesis alterations in response to acute and chronic immobilization stress in the rat (675) 121
Gibey, R., see Mialon, P. (676) 352
Gibson, C.J., see Stoessl, A.J. (700) 115
Gibson, G.E., see Calingasan, N.Y. (677) 50
Gieroba, Z.J., MacKenzie, L., Willoughby, J.O. and Blessing, W.W.
Fos-determined distribution of neurons activated during the Bezold–Jarisch reflex in the medulla oblongata in conscious rabbits and rats (683) 43
Gieroba, Z.J., Zhu, B.-S., Blessing, W.W. and Wesselingh, S.L.
Herpes Simplex Virus induces Fos expression in rat brainstem neurons (675) 329
Giffard, R.G., see Regan, R.F. (705) 188
Gigg, J., see Finch, D.M. (670) 233
Gilbert, D.B., Millar, J. and Cooper, S.J.
The putative dopamine D_3 agonist, 7-OH-DPAT, reduces dopamine release in the nucleus accumbens and electrical self-stimulation to the ventral tegmentum (681) 1
Gilbert, M.E., see Burdette, L.J. (680) 53
Gillespie, D.D., see Rossby, S.P. (687) 79
Gillette, M.U., see Weber, E.T. (692) 137
Gillis, R.A., see Gatti, P.J. (693) 80
Gilly, R., see Jordan, D. (695) 117
Gilman, S., see Jaeger, D. (694) 111
Giménez-Amaya, J.M., see Hontanilla, B. (696) 121
Giménez y Ribotta, M., see Roudet, C. (677) 1
Ginsberg, L., Rafique, S., Xuereb, J.H., Rapoport, S.I. and Gershfeld, N.L.
Disease and anatomic specificity of ethanolamine plasmalogen deficiency in Alzheimer's disease brain (698) 223
Ginsberg, M.D., see Belayev, L. (702) 266
Ginsberg, M.D., see Green, E.J. (702) 145
Ginsberg, M.D., see Takagi, K. (691) 160
Giovannucci, D.R. and Stuenkel, E.L.
An NMDA receptor on isolated secretory nerve endings (702) 246
Giraud, A.L., Collet, L., Chéry-Croze, S., Magnan, J. and Chays, A.
Evidence of a medial olivocochlear involvement in contralateral suppression of otoacoustic emissions in humans (705) 15
Gispen, W.H., see Chepkova, A.N. (701) 255
Gispen, W.H., see Eggen, B.J.L. (690) 73
Gitler, M.S., Boulay, S.F., Sood, V.K., McPherson, D.W., Knap Jr., F.F., Zeeberg, B.R. and Reba, R.C.
Characterization of in vivo brain muscarinic acetylcholine receptor subtype selectivity by competition studies against (*R,S*)-[^{125}I]IQNB(Brain Res. 687 (1995) 71–78) (BRES 11314) (704) 151
Gitler, M.S., Boulay, S.F., Sood, V.K., McPherson, D.W., Knap, Jr., F.F., Zeeberg, B.R. and Reba, R.C.
Characterization of in vivo brain muscarinic acetylcholine receptor subtype selectivity by competition studies against (*R,S*)-[^{125}I]IQNB (687) 71
Givens, B. and McMahon, K.
Ethanol suppresses the induction of long-term potentiation in vivo (688) 27
Glasier, M.M., see Janis, L.S. (679) 99
Glass, J.D., see Lee, W. (690) 64
Glass, M.J., see Bodnar, R.J. (700) 205
Glick, S.D., Maisonneuve, I.M., Raucci, J. and Archer, S.
Kappa opioid inhibition of morphine and cocaine self-administration in rats (681) 147
Glick, S.D., see Pearl, S.M. (675) 342
Gliemann, J., see Tooyama, I. (691) 235
Globus, M.Y.-T., see Green, E.J. (702) 145
Glod, R., see Bugajski, J. (681) 223
Gobbi, G., see Santarelli, M. (698) 241
Godbout, R., Jelenic, P., Labrie, C., Schmitt, M. and Bourguignon, J.-J.
Effect of gamma-hydroxybutyrate and its antagonist NCS-382 on spontaneous cell firing in the prefrontal cortex of the rat (673) 157
Goehler, L.E., see Watkins, L.R. (692) 244
Golabek, A.A., see Kida, E. (674) 341
Gold, P.E., see Login, I.S. (697) 271
Gold, P.E., see Stone, W.S. (694) 133
Goldberg, N., see Barth, D.S. (678) 177
Goldstein, D.S., see Pacak, K. (688) 242
Goldstein, J., see Mallo, G. (693) 196
Goldstein, L.B.
Right vs. left sensorimotor cortex suction-ablation in the rat: no difference in beam-walking recovery (674) 167
Golembiowska, K., White, T.D. and Sawynok, J.
Modulation of adenosine release from rat spinal cord by adenosine deaminase and adenosine kinase inhibitors (699) 315
Golski, S., Olds, J.L., Mishkin, M., Olton, D.S. and Alkon, D.L.
Protein kinase C in the hippocampus is altered by spatial but not cued discriminations: a component task analysis (676) 53
Gómez, L.E., see Cueva-Rolón, R. (679) 267
Gomez, M.V., see Leão, R.M. (703) 86
Gomot, A. and Gomot, L.
Brain grafts of cerebral ganglia have effectiveness in growth restoration of damaged *Helix aspersa mesocerebrum* (682) 127
Gomot, L., see Gomot, A. (682) 127
Gonatas, J., see Stieber, A. (700) 261
Gonatas, N.K., see Salehi, A. (678) 29
Gonatas, N.K., see Stieber, A. (700) 261
Gonchar, Y.A., Johnson, P.B. and Weinberg, R.J.
GABA-immunopositive neurons in rat neocortex with contralateral projections to S-I (697) 27
Gong, Q.-Z., Delahunty, T.M., Hamm, R.J. and Lyeth, B.G.
Metabotropic glutamate antagonist, MCPG, treatment of traumatic brain injury in rats (700) 299
Gong, W., Neill, D.B. and Justice, Jr, J.B.
Increased sensitivity to cocaine place-preference conditioning by septal lesions in rats (683) 221
Gonzalez-Alvear, G.M. and Werling, L.L.
Sigma receptor regulation of norepinephrine release from rat hippocampal slices (673) 61
Gonzalez, A.M., Berry, M., Maher, P.A., Logan, A. and Baird, A.
A comprehensive analysis of the distribution of FGF-2 and FGFR1 in the rat brain (701) 201
González, B., see Vela, J.M. (694) 287
Gonzalez, J.-L., see Pascual, T. (695) 289
Gonzalez-Lima, F., see McIntosh, A.R. (683) 228
Gonzalez-Mora, J.L., see Mas, M. (675) 13
Goode, J.A., see Lévy, F. (669) 197
Goodman, J.C., see Çolak, A. (691) 76
Goodman, S.R., see Clark, M.B. (700) 308
Goodman, Y., see Mattson, M.P. (676) 219
Goodwin, J., see Uemura, E. (671) 187

Goodwin, J.L., Uemura, E. and Cunnick, J.E.
Microglial release of nitric oxide by the synergistic action of β-amyloid and IFN-γ (692) 207
Goping, G., Pollard, H.B., Adeyemo, O.M. and Kuijpers, G.A.J.
Effect of MPTP on dopaminergic neurons in the goldfish brain: a light and electron microscope study (687) 35
Goplerud, J.M., Kim, S. and Delivoria-Papadopoulos, M.
The effect of post-asphyxial reoxygenation with 21% vs. 100% oxygen on Na^+,K^+-ATPase activity in striatum of newborn piglets (696) 161
Gordey, M., Kang, M., Olsen, R.W. and Spigelman, I.
Zinc modulation of $GABA_A$ receptor-mediated chloride flux in rat hippocampal slices (691) 125
Gordon, I., Weizman, R. and Rehavi, M.
[^{3}H]GBR 12935 labels mainly the piperazine acceptor site in the rat prefrontal cortex (674) 205
Gorenstein, C., see Beske, O. (669) 125
Gorman, L.K., see Tobin, J.R. (694) 177
Gotani, H., Kuno, M., Nakamura, F. and Matsuura, S.
Potentiation of excitatory postsynaptic potentials by a metabotropic glutamate receptor agonist (1*S*,3*R*-ACPD) in frog spinal motoneurons (689) 281
Gough, B., see Bowyer, J.F. (699) 62
Goujon, E., Parnet, P., Cremona, S. and Dantzer, R.
Endogenous glucocorticoids down regulate central effects of interleukin-1β on body temperature and behaviour in mice (702) 173
Gould, E.M., Curto, K.A., Craig, C.R., Fleming, W.W. and Taylor, D.A.
The role of $GABA_A$ receptors in the subsensitivity of Purkinje neurons to GABA in genetic epilepsy prone rats (698) 62
Gould, T.J., Bowenkamp, K.E., Larson, G., Zahniser, N.R. and Bickford, P.C.
Effects of dietary restriction on motor learning and cerebellar noradrenergic dysfunction in aged F344 rats (684) 150
Goulet, M., see Calon, F. (680) 43
Graeff, F.G., see Silveira, M.C.L. (674) 265
Graf, R., see Saito, R. (699) 109
Graham, S.H., see Chen, J. (699) 121
Granat, M.H., see Nicol, D.J. (684) 230
Granato, A., see Santarelli, M. (698) 241
Grange, E., see Giaume, M. (675) 121
Grant, A.C., see Scalia, F. (685) 187
Grassi, S., Della Torre, G., Capocchi, G., Zampolini, M. and Pettorossi, V.E.
The role of GABA in NMDA-dependent long term depression (LTD) of rat medial vestibular nuclei (699) 183
Gray, C.W. and Patel, A.J.
Neurodegeneration mediated by glutamate and β-amyloid peptide: a comparison and possible interaction (691) 169
Grayson, D.R., see Wang, X.-H. (689) 32
Grecksch, G., see Becker, A. (688) 230
Green, C.B., Cahill, G.M. and Besharse, J.C.
Regulation of tryptophan hydroxylase expression by a retinal circadian oscillator in vitro (677) 283
Green, E.J., Pazos, A.J., Dietrich, W.D., McCabe, P.M., Schneiderman, N., Lin, B., Busto, R., Globus, M.Y.-T. and Ginsberg, M.D.
Combined postischemic hypothermia and delayed MK-801 treatment attenuates neurobehavioral deficits associated with transient global ischemia in rats (702) 145
Green, E.J., see McEchron, M.D. (682) 157
Green, E.J., see Pazos, A.J. (689) 224
Greenamyre, J.T., see Blandini, F. (669) 59
Greenamyre, J.T., see Hansen, J.T. (670) 197
Greenamyre, J.T., see Messam, C.A. (684) 221
Greene, J.G., see Messam, C.A. (684) 221
Greene, M.I., see Stieber, A. (700) 261
Greenland, K., see Wyse, B. (681) 41
Greenough, W.T., see Hawrylak, N. (683) 187
Greenough, W.T., see Warren, S.G. (703) 26
Greenough, W.T., see Werner, D. (701) 55
Gregersen, N., see Linnet, K. (697) 251
Gregg, T.R., see Campbell, K.A. (702) 110
Gresch, P.J., see Ross, R.J. (701) 129
Griffith, J.K., see LaManna, J.C. (687) 175
Grillner, S., see Viana Di Prisco, G. (695) 76
Grillner, S., see Wikström, M. (678) 191
Grimwood, P. and Appenteng, K.
Differences in monosynaptic EPSPs elicited by masseter and temporalis spindle afferents in anaesthetised rats (686) 259
Grimwood, P. and Appenteng, K.
Effects of afferent firing frequency on the amplitude of the monosynaptic EPSP elicited by trigeminal spindle afferents on trigeminal motoneurones (689) 299
Grisolía, S., see Marcaida, G. (695) 146
Grkovic, I. and Anderson, C.R.
Calretinin-containing preganglionic nerve terminals in the rat superior cervical ganglion surround neurons projecting to the submandibular salivary gland (684) 127
Gros, F., see Wallois, F. (687) 143
Gross, G.W., see Azzazy, H.M.E. (695) 231
Grossman, R.G., see Çolak, A. (691) 76
Groves, P.M., see Mura, A. (704) 51
Gruen, R.J., Wenberg, K., Elahi, R. and Friedhoff, A.J.
Alterations in $GABA_A$ receptor binding in the prefrontal cortex following exposure to chronic stress (684) 112
Gruol, D.L. and Curry, J.G.
Calcium signals elicited by quisqualate in cultured Purkinje neurons show developmental changes in sensitivity to acute alcohol (673) 1
Gruol, D.L., see Holliday, J. (673) 141
Gruol, D.L., see Netzeband, J.G. (688) 105
Gruol, D.L., see Randall, R.D. (701) 238
Grüsser-Cornehls, U., Luy, M. and Bäurle, J.
Electrophysiology and GABA-immunocytochemistry in the vestibular nuclei of normal (C57BL/6J) and Leaner mutant mice (703) 51
Guarneri, P., Guarneri, R., Cascio, C., Piccoli, F. and Papadopoulos, V.
γ-Aminobutyric acid type A/benzodiazepine receptors regulate rat retina neurosteroidogenesis (683) 65
Guarneri, R., see Guarneri, P. (683) 65
Guarnieri, T., see Villani, L. (679) 261
Guarnieri, T., see Villani, L. (705) 332
Guatteo, E., see Franceschetti, S. (696) 127
Gubbi, A.V., see Arango, V. (688) 121
Guegant, G., see Henry, C. (685) 179
Guerra, M.J., see Liste, I. (700) 1
Guevara-Guzman, R., see Lévy, F. (669) 197
Guezennec, C.Y., see Piérard, C. (693) 251
Guibert, B., see Olivier, V. (695) 1
Guilbaud, G., see Berkley, K.J. (695) 92
Guillot, P.-V., see Hensbroek, R.A. (682) 203
Gulati, A., see Rebello, S. (676) 141
Gulati, A.K., Rai, D.R. and Ali, A.M.
The influence of cultured Schwann cells on regeneration through acellular basal lamina grafts (705) 118
Gulati, K. and Ray, A.
Effects of intrahypothalamic morphine and its interactions with oxytocin and vasopressin during food intake in rats (690) 99
Guldenaar, S.E.F. and Swaab, D.F.
Estimation of oxytocin mRNA in the human paraventricular nucleus in AIDS by means of quantitative in situ hybridization (700) 107
Gullans, S.R., see Trachtman, H. (693) 155
Gulya, K., see Harkany, T. (695) 71
Gulya, K., see Harkany, T. (698) 270
Gunasekar, P.G., see Kanthasamy, A.G. (705) 97
Gundelfinger, E.D., see Seidel, B. (700) 13
Gundlach, A.L., Burazin, T.C.D., Jenkins, T.A. and Berkovic, S.F.
Spatiotemporal alterations of central α_1-adrenergic receptor binding sites following amygdaloid kindling seizures in the rat: autoradiographic studies using [^{3}H]prazosin (672) 214
Gundlach, A.L., see King, P.R. (675) 264
Gunel, M., see De Lanerolle, N.C. (686) 182
Gunther, K.L., see Bannon, A.W. (678) 244
Guo, H., see Sekiguchi, M. (696) 262
Guo, H., see Smith, J.A. (683) 264
Gupta, M., see Sosnowski, J.S. (702) 37
Gupta, R.P. and Abou-Donia, M.B.
Diisopropyl phosphorofluoridate (DFP) treatment alters calcium-activated proteinase activity and cytoskeletal proteins of the hen sciatic nerve (677) 162
Gurney, M.E., see Dal Canto, M.C. (676) 25
Gutstein, H.B., Trujillo, K.A. and Akil, H.
Does chronic nociceptive stimulation alter the development of morphine tolerance? (680) 173
Guy, N., see Fadlallah, N. (675) 55
Guyenet, P.G., see Baraban, S.C. (676) 245
Gysbers, J.W., see Middlemiss, P.J. (677) 152
Gysling, K., see Sepúlveda, C. (674) 104

H

Ha, J.-H., see Yurdaydin, C. (679) 42
Haberl, R.L., see Riedel, M.W. (671) 21
Hacker, G.W., see Kaufmann, W. (695) 125
Hackman, J.C., see Holohean, A.M. (704) 184
Haddad, G.G., see O'Reilly, J.P. (683) 179
Haddad, G.G., see Xia, Y. (675) 224
Hafmans, T.G.M., see Mulders, W.H.A.M. (689) 47
Hafmans, T.G.M., see Mulders, W.H.A.M. (689) 61
Hagberg, H., see Blomgren, K. (684) 136
Hagberg, H., see Blomgren, K. (684) 143
Hagiwara, M., see Ohki, K. (696) 140
Hagiwara, Y., see Kubo, T. (686) 1
Haglid, K.G., see Yang, Q. (696) 49
Haile, D.T., see Shain, D.H. (697) 241
Hakamata, Y., see Hanyu, S. (686) 44
Hallman, D.M., see Supowit, S.C. (686) 77
Halonen, T., Kotti, T., Tuunanen, J., Toppinen, A., Miettinen, R. and Riekkinen, P.J.
α_2-Adrenoceptor agonist, dexmedetomidine, protects against kainic acid-induced convulsions and neuronal damage (693) 217
Halperin, J.A., see Shen, Y. (671) 282
Halpern, M., Shapiro, L.S. and Jia, C.
Differential localization of G proteins in the opossum vomeronasal system (677) 157
Hama, A.T., Unnerstall, J.R., Siegan, J.B. and Sagen, J.
Modulation of NMDA receptor expression in the rat spinal cord by peripheral nerve injury and adrenal medullary grafting (687) 103
Hamasaki, Y., see Matsuo, M. (685) 201
Hamassaki-Britto, D.E., see Toledo, C.A.B. (705) 341
Hamberger, A., see Yang, Q. (696) 49
Hambright Keiger, C.J., see Jennings, R.A. (683) 159
Hamedi-Sangsari, F., see Lockhart, B.P. (670) 313
Hamill, R.W., see Wetzel, D.M. (679) 72
Hamilton, M.E. and Freeman, A.S.
Effects of administration of cholecystokinin into the VTA on DA overflow in nucleus accumbens and amygdala of freely moving rats (688) 134
Hamm, R.J., see Gong, Q.-Z. (700) 299
Hamm, R.J., see Pike, B.R. (686) 37
Hammer, Jr., R.P., see Cheung, S. (675) 83
Hammond, D.L., see Thomas, D.A. (695) 267
Hammond, D.N., see Kim, J.-H. (671) 299
Hamprecht, B., see Schmoll, D. (677) 341
Hampson, D.R., see Cooper, R.L. (703) 214
Hampson, R.E., see Kirby, M.T. (688) 114
Han, D., see Yoneda, Y. (685) 105
Han, Z.-S., see Qiu, K. (702) 287
Handa, R.J., see Kus, L. (683) 270
Hanesch, U., Blecher, F., Stiller, R.U., Emson, P.C., Schaible, H.-G. and Heppelmann, B.
The effect of a unilateral inflammation at the rat's ankle joint on the expression of preprotachykinin-A mRNA and preprosomatostatin mRNA in dorsal root ganglion cells — a study using non-radioactive in situ hybridization (700) 279
Haney, M., Maccari, S., Le Moal, M., Simon, H. and Piazza, P.V.
Social stress increases the acquisition of cocaine self-administration in male and female rats (698) 46
Hanke, W., see Ulmer, H.J. (691) 239
Hannibal, J., see Zhang, Q. (705) 149
Hansen, J.T., Sakai, K., Greenamyre, J.T. and Moran, S.
Sprouting of dopaminergic fibers from spared mesencephalic dopamine neurons in the unilateral partial lesioned rat (670) 197
Hansson, P., see Yu, L.-C. (698) 23
Hanyu, S., Ito, U., Hakamata, Y. and Yoshida, M.
Transition from ischemic neuronal necrosis to infarction in repeated ischemia (686) 44
Happe, H.K., see Coulter, C.L. (690) 217
Hara, A., Yoshimi, N., Hirose, Y., Ino, N., Tanaka, T. and Mori, H.
DNA fragmentation in granular cells of human cerebellum following global ischemia (697) 247
Hara, A., see Iwai, T. (671) 305
Hara, N., see Sawada, M. (670) 248
Hara, S., Kuhns, E.R., Ellenberger, E.A., Mueller, J.L., Shibuya, T., Endo, T. and Quock, R.M.
Involvement of nitric oxide in intracerebroventricular β-endorphin-induced neuronal release of methionine-enkephalin (675) 190
Harada, K., see Ono, J. (671) 141
Harada, N., see Dellovade, T.L. (674) 181
Harada, N., see Foidart, A. (701) 267
Harada, T., see Ohki, K. (696) 140
Haraguchi, N., see Yamada, Y. (669) 86
Harding, J.W., see Roberts, K.A. (682) 13
Hari, R., see Forss, N. (685) 68
Harigaya, Y., see Iizuka, T. (702) 275
Harkany, T., De Jong, G.I., Soós, K., Penke, B., Luiten, P.G.M. and Gulya, K.
β-Amyloid$_{(1-42)}$ affects cholinergic but not parvalbumin-containing neurons in the septal complex of the rat (698) 270
Harkany, T., Lengyel, Z., Soós, K., Penke, B., Luiten, P.G.M. and Gulya, K.
Cholinotoxic effects of β-amyloid$_{(1-42)}$ peptide on cortical projections of the rat nucleus basalis magnocellularis (695) 71
Harlan, R.E. and Garcia, M.M.
Charting of Jun family member proteins in the rat forebrain and midbrain: immunocytochemical evidence for a new Jun-related antigen (692) 1
Harlan, R.E., see Garcia, M.M. (692) 23
Harlan, R.E., see Menard, C.S. (669) 255
Harley, C.W., Milway, J.S. and Fara-On, M.
Medial forebrain bundle stimulation in rats activates glycogen phosphorylase in layers 4, 5b and 6 of ipsilateral granular neocortex (685) 217
Harlow, R., see Schechter, R. (670) 1
Harper, R.M., see Rector, D.M. (696) 151
Harrell, L.E., Kolasa, K., Parsons, D.S. and Ayyagari, V.
Hippocampal sympathetic ingrowth and cholinergic denervation uniquely alter muscarinic receptor subtypes in the hippocampus (676) 386
Harrell, L.E., see Ayyagari, V. (676) 394
Harrell, L.E., see Kolasa, K. (684) 201
Harrington, M.E., see Eaton, S.J. (695) 227
Harris, G.C., see White, S.R. (681) 167
Harrison, E., see Sojka, M. (684) 209
Harrison, M.B., see Login, I.S. (681) 209
Harrison, M.B., see Login, I.S. (697) 271
Harrison, P.J., see Burnet, P.W.J. (676) 157
Hart, R.W., see Freyaldenhoven, T.E. (688) 161
Härtig, W., Brauer, K., Fritschy, J.-M., Brückner, G. and Bigl, V.
Regional and cellular expression sites of the α_1 subunit of $GABA_A$ receptors in the rat basal forebrain: a cytochemical study with glutamic acid decarboxylase, choline acetyltransferase, calcium-binding proteins and nitric oxide synthase as second markers (692) 215
Härtig, W., Brückner, G., Brauer, K., Schmidt, C. and Bigl, V.
Allocation of perineuronal nets and parvalbumin-, calbindin-D_{28k}- and glutamic acid decarboxylase-immunoreactivity in the amygdala of the rhesus monkey (698) 265
Härtig, W., see Wouterlood, F.G. (682) 93
Hartmann, H., see Müller, W.E. (674) 133
Harvey, A.R., see Plant, G.W. (671) 119
Hashiguchi, Y., Molina, P.E. and Abumrad, N.N.
Morphine-3-glucuronide: hyperglycemic and neuroendocrine potentiating effects (694) 13
Hashimoto, A., see Kumashiro, S. (681) 117
Hashimoto, K., see Takao, T. (688) 219
Hashimoto, N., see Fukuda, S.-i. (696) 30
Hashimoto, S., see Ono, J. (671) 141
Hashimoto, Y., see Kawakami, T. (683) 88
Hashino, E. and Shero, M.
Endocytosis of aminoglycoside antibiotics in sensory hair cells (704) 135
Hastings, J.A., see Pavia, J.M. (690) 108
Hastings, L., see Miller, M.L. (669) 1
Hatanaka, H., see Akaneya, Y. (704) 175
Hatanaka, H., see Nonomura, T. (683) 129
Hatta, S., Ozawa, H., Saito, T., Amemiya, N. and Ohshika, H.
Tubulin stimulates adenylyl cyclase activity in rat striatal membranes via transfer of guanine nucleotide to Gs protein (704) 23
Hatton, G.I., see Yang, Q.Z. (680) 207
Hattori, A., see Aoki, M. (669) 189
Hattori, Y., see Islam, N. (684) 206
Hauser-Kronberger, C., see Kaufmann, W. (695) 125
Haustein, A.T., see Villegas, G.M. (685) 77
Hautman, J.M., see Kus, L. (683) 270

Hauw, J.J., see Faucheux, B.A. (691) 115
Haver, E., Lichtstein, D. and Munson, P.J.
Multiple types of binding sites for atrial natriuretic peptide in rat olfactory bulb membranes and synaptosomes (681) 75
Haver, E., see Bachar, C. (682) 231
Hawkins, R.L., Inoue, M., Mori, M. and Torii, K.
Effect of inhibin, follistatin, or activin infusion into the lateral hypothalamus on operant behavior of rats fed lysine deficient diet (704) 1
Hawks, T., see Schneider, J.S. (672) 112
Hawrylak, N. and Greenough, W.T.
Monocular deprivation alters the morphology of glial fibrillary acidic protein-immunoreactive astrocytes in the rat visual cortex (683) 187
Hawrylak, N., see Werner, D. (701) 55
Hay, C., Virgo, L., Mentis, G., Navarrete, R. and De Belleroche, J.
Changes in expression of NR-1 and c-*jun* mRNA in rat lumbar spinal cord after neonatal common peroneal nerve crush (704) 145
Hay, M. and Lindsley, K.A.
Membrane properties of area postrema neurons (705) 199
Hay, M. and Lindsley, K.A.
Metabotropic glutamate receptor inhibition of visceral afferent potassium currents (698) 169
Hayabara, T., see Sato, K. (683) 279
Hayaishi, O., see Nishihara, I. (677) 138
Hayashi, H. and Ishizuka, S.
Chaotic responses of the hippocampal CA3 region to a mossy fiber stimulation in vitro (686) 194
Hayashi, S., see Orikasa, C. (693) 112
Hayes, R.L., see Whitson, J.S. (694) 213
Haynes-Laing, A.G., see McGowan, J.E. (670) 283
Hazrati, L.-N., Pinault, D. and Parent, A.
The thalamic reticular nucleus does not send commissural projection to the contralateral parafascicular nucleus in the rat (679) 123
He, Z., Ibayashi, S., Nagao, T., Fujii, K., Sadoshima, S. and Fujishima, M.
L-Arginine ameliorates cerebral blood flow and metabolism and decreases infarct volume in rats with cerebral ischemia (699) 208
Head, E., see Milgram, N.W. (670) 112
Heale, V.R., Vanderwolf, C.H. and Leung, L.S.
The neurotoxins colchicine and kainic acid block odor-induced fast waves and olfactory-evoked potentials in the dentate gyrus of the behaving rat (690) 157
Heaton, M.B., see Webb, B. (701) 61
Hebert, T.J., see Menard, C.S. (669) 255
Hedberg, T.G. and Stanton, P.K.
Long-term potentiation and depression of synaptic transmission in rat posterior cingulate cortex (670) 181
Hedlund, P.B., see Aguirre, J.A. (684) 159
Hedlund, P.B., see Hillefors-Berglund, M. (690) 34
Heemskerk, F.M.J. and Saavedra, J.M.
Quantitative autoradiography of angiotensin II AT_2 receptors with [^{125}I]CGP 42112 (677) 29
Heemskerk, F.M.J., see De Oliveira, A.M. (705) 177
Heemskerk, F.M.J., see Versteeg, D.H.G. (686) 233
Heers, C., see Nuydens, R. (688) 86
Heinemann, U., see Igelmund, P. (689) 9
Heinemann, U., see Schmitz, D. (701) 249
Heinrichs, S.C., see Caine, S.B. (692) 47
Heinsbroek, R.P.W., see Broersen, L.M. (674) 221
Heiss, W.-D., see Saito, R. (699) 109
Helke, C.J., see Ichikawa, H. (675) 337
Heller, H.C., see Benington, J.H. (681) 141
Heller, H.C., see Benington, J.H. (692) 79
Heller, H.C., see Benington, J.H. (692) 86
Hellgren, J., see Wikström, M. (678) 191
Hempleman, S.C.
Sodium and potassium current in neonatal rat carotid body cells following chronic in vivo hypoxia (699) 42
Hendriksen, E., see Kamphuis, W. (702) 94
Hendry, I.A., Johanson, S.O. and Heydon, K.
Retrograde axonal transport of the α subunit of the GTP-binding protein G_z to the nucleus of sensory neurons (700) 157
Hendry, I.A., see Johanson, S.O. (690) 55
Henriksen, S.J., see Mayer, J.H. (686) 134
Henry, C., Guegant, G., Cador, M., Arnauld, E., Arsaut, J., Le Moal, M. and Demotes-Mainard, J.
Prenatal stress in rats facilitates amphetamine-induced sensitization and induces long-lasting changes in dopamine receptors in the nucleus accumbens (685) 179
Henry, J.L., see Yashpal, K. (674) 97
Hensbroek, R.A., Sluyter, F., Guillot, P.-V., Van Oortmerssen, G.A. and Crusio, W.E.
Y chromosomal effects on hippocampal mossy fiber distributions in mice selected for aggression (682) 203
Henzel, D., see Lecharny, J.-B. (670) 308
Heo, J.H., Kim, D.G., Bahng, H.R. and Kim, J.-S.
Dimethylthiourea prevents MPTP-induced decrease in [^{3}H]dopamine uptake in rat striatal slices (671) 321
Heppelmann, B., see Hanesch, U. (700) 279
Herbert, J., see Lambert, P.D. (670) 59
Herbison, A.E., see Condé, G.L. (672) 68
Herman, J.P. and Watson, S.J.
Stress regulation of mineralocorticoid receptor heteronuclear RNA in rat hippocampus (677) 243
Herman, M.M., see Savory, J. (669) 325
Hermann, A., see Kaufmann, W. (695) 125
Hernández, L., see Puig de Parada, M. (696) 254
Hernandez, L., see Parada, M.A. (674) 117
Hernandez, T.D. and Warner, L.A.
Kindled seizures during a critical post-lesion period exert a lasting impact on behavioral recovery (673) 208
Hernanz, A., see Martínez, M. (673) 149
Héron, A., see Rigaud-Monnet, A.-S. (673) 297
Herrero, M.T., see Faucheux, B.A. (691) 115
Herreros, J., Miralles, F.X., Solsona, C., Bizzini, B., Blasi, J. and Marsal, J.
Tetanus toxin inhibits spontaneous quantal release and cleaves VAMP/synaptobrevin (699) 165
Herrick-Davis, K., see Pearl, S.M. (675) 342
Hertting, G., see Lauth, D. (692) 174
Hertzberg, E.L., see Sawchuk, M.A. (683) 153
Hesse, H., see Quirk, G.J. (670) 277
Hester, M.A., see Chebabo, S.R. (695) 203
Heydon, K., see Hendry, I.A. (700) 157
Hicks, R.R., Smith, D.H. and McIntosh, T.K.
Temporal response and effects of excitatory amino acid antagonism on microtubule-associated protein 2 immunoreactivity following experimental brain injury in rats (678) 151
Hidaka, H., see Iino, S. (680) 128
Higashi, H., see Shimizu, T. (691) 92
Hilaire, G., see Di Pasquale, E. (695) 271
Hildebrandt, H. and Müller, U.
PKA activity in the antennal lobe of honeybees is regulated by chemosensory stimulation in vivo (679) 281
Hill, G., see Spessert, R. (694) 207
Hill, I.E., MacManus, J.P., Rasquinha, I. and Tuor, U.I.
DNA fragmentation indicative of apoptosis following unilateral cerebral hypoxia-ischemia in the neonatal rat (676) 398
Hill, J.M., see Wong, M.K.C. (683) 149
Hill, R., see Wikström, M. (678) 191
Hill, R.G., see Cahusac, P.M.B. (700) 70
Hillefors-Berglund, M., Hedlund, P.B. and Von Euler, G.
Effects of CGS 21680 in vivo on dopamine D_2 agonist binding in the rat brain (690) 34
Hilliard, M., see Lipinski, W.J. (692) 143
Hilton, C., see Prasad, C. (699) 149
Hirai, K.-I., see Mizutani, Y. (693) 95
Hirai, S., see Iizuka, T. (702) 275
Hiraiwa, M., see Hozumi, I. (688) 143
Hiramatsu, M., Oikawa, K., Noda, H., Mori, A., Ogata, T. and Kamada, H.
Free radical imaging by electron spin resonance computed tomography in rat brain (697) 44
Hiramoto, R.N., see Hsueh, C.-M. (678) 76
Hirano, M., see Hondo, H. (671) 54
Hirashima, N., see Luo, Y.Q. (681) 65
Hirata, H., Ladenheim, B., Rothman, R.B., Epstein, C. and Cadet, J.L.
Methamphetamine-induced serotonin neurotoxicity is mediated by superoxide radicals (677) 345
Hirose, Y., see Hara, A. (697) 247

Hirsch, E.C., see Faucheux, B.A. (691) 115
Hirsch, E.C., see Thibaut, F. (692) 233
Hisaichi, M., see Fujimoto, K. (702) 284
Hisamitsu, T., see Matsumoto, G. (693) 246
Hisanaga, K., Kure, S., Bredesen, D.E., Ikeda, Y., Kohsaka, S. and Sharp, F.R.
Apoptotic cell death of a temperature-sensitive central neuronal cell line (684) 79
Hisano, S., Zhang, R., Uemura, N., Fukui, Y. and Miki, T.
Region-related Fos expression in hypothalamic dopaminergic neurons of rats by intraperitoneal administration of an endogenous satiety substance, 2-buten-4-olide (676) 409
Hiscock, J.J., see Willoughby, J.O. (683) 73
Hittner, J.M., see Cleary, J. (682) 69
Hoare, J., see Cheng, J. (681) 197
Hochberg, R.B., see Kühnemann, S. (691) 229
Hochstenbach, S.L. and Ciriello, J.
Plasma hypernatremia induces c-*fos* activity in medullary catecholaminergic neurons (674) 46
Hochstrate, P., Piel, C. and Schlue, W.-R.
Effect of extracellular K^+ on the intracellular free Ca^{2+} concentration in leech glial cells and Retzius neurones (696) 231
Hodgkiss, J.P. and Kelly, J.S.
Only 'de novo' long-term depression (LTD) in the rat hippocampus in vitro is blocked by the same low concentration of FK506 that blocks LTD in the visual cortex (705) 241
Hoebel, B.G., see Mark, G.P. (688) 184
Hof, P.R., see Blümcke, I. (682) 239
Hof, P.R., see Vickers, J.C. (671) 175
Hoffer, B.J., see Shinoda, M. (680) 180
Hoffman, J.M., see Schneider, J.S. (672) 112
Hoffman, M.A. and Koceja, D.M.
The effects of vision and task complexity on Hoffmann reflex gain (700) 303
Hofman, M.A., Skene, D.J. and Swaab, D.F.
Effect of photoperiod on the diurnal melatonin and 5-methoxytryptophol rhythms in the human, pineal gland (671) 254
Hofman, M.A., see Lucassen, P.J. (693) 261
Hofman, M.A., see Salehi, A. (678) 29
Hofman, M.A., see Zhou, J.-N. (672) 285
Hökfelt, T., see Giardino, L. (687) 83
Hökfelt, T., see Szallasi, A. (703) 175
Hökfelt, T., see Xu, X.-J. (670) 342
Hökfelt, T., see Zhang, Q. (705) 149
Holliday, J., Parsons, K., Curry, J., Lee, S.Y. and Gruol, D.L.
Cerebellar granule neurons develop elevated calcium responses when treated with interleukin-6 in culture (673) 141
Hollingsworth, C.K., see Bennett, B.A. (705) 168
Hollingsworth, C.K., see Wichems, C.H. (695) 10
Holman, S.D., Collado, P., Rice, A. and Hutchison, J.B.
Stereological estimates of postnatal structural differentiation in a sexually dimorphic hypothalamic nucleus involved in vocal control (694) 167
Holmes, K.H., see Arvanov, V.L. (669) 140
Holmquist, B., see Danielsen, N. (681) 105
Holohean, A.M., Hackman, J.C. and Davidoff, R.A.
Modulation of frog spinal cord interneuronal activity by activation of 5-HT_3 receptors (704) 184
Holson, R.R., see Bowyer, J.F. (699) 62
Homby, P.J., see Gatti, P.J. (693) 80
Hönack, D., see Löscher, W. (697) 197
Honda, E., Teeter, J.H. and Restrepo, D.
$InsP_3$-gated ion channels in rat olfactory cilia membrane (703) 79
Honda, E., see Inenaga, K. (705) 85
Hondo, H., Nakahara, T., Nakamura, K., Hirano, M., Uchimura, H. and Tashiro, N.
The effect of phencyclidine on the basal and high potassium evoked extracellular GABA levels in the striatum of freely-moving rats: an in vivo microdialysis study (671) 54
Honegger, P., see Monnet-Tschudi, F. (690) 8
Hong, J.-S., see Bronstein, D.M. (704) 112
Hong, K., see Azzazy, H.M.E. (695) 231
Hongo, M., see Fukudo, S. (675) 98
Honig, W., see Prickaerts, J. (674) 142
Honma, K.-i., see Honma, S. (674) 283
Honma, S. and Honma, K.-i.
Phase-dependent phase shift of methamphetamine-induced circadian rhythm by haloperidol in SCN-lesioned rats (674) 283
Honmou, O., Oyelese, A.A. and Kocsis, J.D.
The anticonvulsant gabapentin enhances promoted release of GABA in hippocampus: a field potential analysis (692) 273
Honoré, P., Chapman, V., Buritova, J. and Besson, J.-M.
When is the maximal effect of pre-administered systemic morphine on carrageenin evoked spinal c-Fos expression in the rat? (705) 91
Honoré, P., see Buritova, J. (674) 211
Honoré, P., see Chapman, V. (697) 258
Hontanilla, B., Parent, A. and Giménez-Amaya, J.M.
Heterogeneous distribution of neurons containing calbindin D-28k and/or parvalbumin in the rat red nucleus (696) 121
Hoopes, P.J., see Liu, K.J. (685) 91
Hopkins, D.A., see Allen, G.V. (680) 117
Hori, H., see Kawakami, T. (683) 88
Hori, K., see Yamamuro, Y. (684) 1
Hori, S., see Asakuno, K. (702) 23
Hori, T., see Oka, T. (692) 123
Hori, T., see Oka, T. (700) 271
Hori, Y., see Islam, N. (684) 206
Horita, H., see Sato, Y. (692) 66
Horn, G., see Van der Zee, E.A. (676) 41
Horner, C.H., Davies, H.A., Brown, J. and Stewart, M.G.
Reduction in numerical synapse density in chick (*Gallus domesticus*) dorsal hippocampus following transient cerebral ischaemia (703) 245
Horvath, E., see Phelps, C.P. (688) 193
Horvath, R., see Mayfield, K.P. (676) 358
Horvath, T.L., Leranth, C., Kalra, S.P. and Naftolino, F.
Galanin neurons exhibit estrogen receptor immunoreactivity in the female rat mediobasal hypothalamus (675) 321
Hosie, A.M., Shirai, Y., Buckingham, S.D., Rauh, J.J., Roush, R.T., Baylis, H.A. and Sattelle, D.B.
Blocking actions of BIDN, a bicyclic dinitrile convulsant compound, on wild-type and dieldrin-resistant GABA receptor homo-oligomers of *Drosophila melanogaster* expressed in *Xenopus* oocytes (693) 257
Hosoi, M., see Oka, T. (692) 123
Hosoi, M., see Oka, T. (700) 271
Hosokawa, M., see Umezawa, M. (669) 225
Hosokawa, M., see Yamada, T. (674) 175
Hoss, W., see Periyasamy, S. (693) 118
Hossain, M.Z., see Sawchuk, M.A. (683) 153
Hotta, M., see Shibasaki, T. (688) 189
Hou, X.-E. and Dahlström, A.
Effects of decentralization on the levels of GAP-43 and p38 (synaptophysin) in sympathetic adrenergic neurons: a semi-quantitative study using immunofluorescence and confocal laser scanning microscopy (679) 49
Hough, C., see Gao, X.-M. (703) 63
Housden, E., see Fok-Seang, J. (689) 207
House, R.V., see Bhargava, H.N. (690) 121
House, R.V., see Coceani, F. (700) 191
Houtani, T., see Ikeda, M. (690) 225
Houtani, T., see Nakagawa, H. (690) 236
Hovda, D.A., see Kawamata, T. (674) 196
Hoversten, M.T., see Mansour, A. (700) 89
Howells, D.W., see Jenkins, T.A. (691) 213
Howlett, W., see Shuaib, A. (702) 199
Hozumi, I., Inuzuka, T., Hiraiwa, M., Uchida, Y., Anezaki, T., Ishiguro, H., Kobayashi, H., Uda, Y., Miyatake, T. and Tsuji, S.
Changes of growth inhibitory factor after stab wounds in rat brain (688) 143
Hrachovy, R.A., see Lee, C.L. (677) 97
Hsiao, C.-f. and Chandler, S.H.
Characteristics of a fast transient outward current in guinea pig trigeminal motoneurons (695) 217
Hsu, K.-S., Huang, C.-C., Yang, C.-H. and Gean, P.-W.
Presynaptic D_2 dopaminergic receptors mediate inhibition of excitatory synaptic transmission in rat neostriatum (690) 264
Hsu, L. and Jeng, A.Y.
Growth-promoting effects of endothelin-1 and endothelin-3 on chick embryos (703) 72
Hsu, M., see Madamba, S.G. (685) 21
Hsueh, C.-M., Chen, S.-F., Ghanta, V.K. and Hiramoto, R.N.
Expression of the conditioned NK cell activity is β-endorphin dependent (678) 76
Huang, C.-C., see Hsu, K.-S. (690) 264
Huang, J. and Philbert, M.A.
Distribution of glutathione and glutathione-related enzyme systems in mitochondria and cytosol of cultured cerebellar astrocytes and granule cells (680) 16
Huang, M., see Rossby, S.P. (687) 79
Huang, N.C., see Quast, M.J. (677) 204
Huang, P.L., see Darius, S. (690) 231

Huang, R. and Somjen, G.G.
The effect of graded hypertonia on interstitial volume, tissue resistance and synaptic transmission in rat hippocampal tissue slices (702) 181
Huang, R., Aitken, P.G. and Somjen, G.G.
The extent and mechanism of the loss of function caused by strongly hypotonic solutions in rat hippocampal slices (695) 195
Huang, Y., see Savory, J. (669) 325
Hübel, K., see Saito, R. (699) 109
Hubscher, C.H. and Berkley, K.J.
Spinal and vagal influences on the responses of rat solitary nucleus neurons to stimulation of uterus, cervix and vagina (702) 251
Hudson, J.L., see Shinoda, M. (680) 180
Hudson, P.M., see Bronstein, D.M. (704) 112
Huhman, K.L., Babagbemi, T.O. and Albers, H.E.
Bicuculline blocks neuropeptide Y-induced phase advances when microinjected in the suprachiasmatic nucleus of syrian hamsters (675) 333
Hull, E.M., see Markowski, V.P. (699) 266
Humphreys, A.G., see Warren, S.G. (703) 26
Huntley, G.W., see Vickers, J.C. (671) 175
Hurlé, M.A., see Barro, M. (672) 148
Hurt, K.J., Fiskum, G., Rosenthal, R.E. and Werling, L.L.
The role of L-type voltage dependent calcium channels in stimulated [^{3}H]norepinephrine release from canine hippocampal slices following global cerebral ischemia and reperfusion (673) 226
Husain, J. and Juurlink, B.H.J.
Oligodendroglial precursor cell susceptibility to hypoxia is related to poor ability to cope with reactive oxygen species (698) 86
Hutchison, J.B., see Holman, S.D. (694) 167
Hutton, L.A., see Yu, J. (705) 247
Huxlin, K.R.
NADPH-diaphorase expression in neurons and glia of the normal adult rat retina (692) 195
Hwang, B.H., Kunkler, P.E., Lumeng, L. and Li, T.-K.
Calcitonin gene-related peptide (CGRP) content and CGRP receptor binding sites in discrete forebrain regions of alcohol-preferring vs. -nonpreferring rats, and high alcohol-drinking vs. low alcohol-drinking rats (690) 249
Hyden, H., see Yang, Q. (696) 49
Hyodo, M., see Nishihara, I. (677) 138
Hyslop, P.A., Zhang, Z., Pearson, D.V. and Phebus, L.A.
Measurement of striatal H_2O_2 by microdialysis following global forebrain ischemia and reperfusion in the rat: correlation with the cytotoxic potential of H_2O_2 in vitro (671) 181
Hyson, R.L. and Rubel, E.W.
Activity-dependent regulation of a ribosomal RNA epitope in the chick cochlear nucleus (672) 196
Hyson, R.L., Reyes, A.D. and Rubel, E.W.
A depolarizing inhibitory response to GABA in brainstem auditory neurons of the chick (677) 117

I

Iacovitti, L., see Du, X. (680) 229
Iani, C., see Rossini, P.M. (676) 314
Ibarra, G.R., Rodriguez, J.A., Paratcha, G.Ch. and Azcurra, J.M.
Permanent alteration of muscarinic acetylcholine receptor binding in rat striatum after circling training during development (705) 39
Ibata, Y., see Yokoyama, C. (681) 153
Ibayashi, S., see He, Z. (699) 208
Ichihara, N., Wu, J., De Hua Chui, , Yamazaki, K., Wakabayashi, T. and Kikuchi, T.
Axonal degeneration promotes abnormal accumulation of amyloid ß-protein in ascending gracile tract of gracile axonal dystrophy (GAD) mouse (695) 173
Ichikawa, H. and Helke, C.J.
Parvalbumin and calbindin D-28k in vagal and glossopharyngeal sensory neurons of the rat (675) 337
Ichikawa, H., Deguchi, T., Nakago, T., Jacobowitz, D.M. and Sugimoto, T.
Parvalbumin- and calretinin-immunoreactive trigeminal neurons innervating the rat molar tooth pulp (679) 205
Ichikawa, J. and Meltzer, H.Y.
DOI, a 5-$HT_{2A/2C}$ receptor agonist, potentiates amphetamine-induced dopamine release in rat striatum (698) 204
Ichikawa, M., see Osada, T. (683) 254
Ichinose, M., see Sawada, M. (670) 248
Ichinowatari, N., see Watanabe, M. (670) 173
Igarashi, K., see Tojo, H. (669) 163
Igbavboa, U., see Wood, W.G. (683) 36
Igelmund, P. and Heinemann, U.
Synaptic transmission and paired-pulse behaviour of CA1 pyramidal cells in hippocampal slices from a hibernator at low temperature: importance of ionic environment (689) 9
Iino, S., Kobayashi, S., Okazaki, K. and Hidaka, H.
Immunohistochemical localization of neurocalcin in the rat inner ear (680) 128
Iizuka, T., Shoji, M., Harigaya, Y., Kawarabayashi, T., Watanabe, M., Kanai, M. and Hirai, S.
Amyloid β-protein ending at Thr43 is a minor component of some diffuse plaques in the Alzheimer's disease brain, but is not found in cerebrovascular amyloid (702) 275
Ijaz, S., see Shuaib, A. (702) 199
Ikarashi, Y., see Ishimaru, H. (673) 112
Ike, J., Canton, H. and Sanders-Bush, E.
Developmental switch in the hippocampal serotonin receptor linked to phosphoinositide hydrolysis (678) 49
Ikeda, K., Egashira, T., Yamashita, J. and Okoyama, S.
Effect of vagal autotransplantation and bifemelane hydrochloride on cholinergic markers and event-related potentials in rats with lesions of the nucleus basalis magnocellularis (688) 171
Ikeda, K., see Mizuguchi, M. (697) 235
Ikeda, K., see Nishimura, T. (695) 137
Ikeda, M., Houtani, T., Nakagawa, H., Baba, K., Kondoh, A., Ueyama, T., Yamamoto, T., Gemba, H. and Sugimoto, T.
Enkephalin-immunoreactive fastigial neurons in the rat cerebellum project to upper cervical cord segments (690) 225
Ikeda, M., see Koizumi, S. (673) 75
Ikeda, M., see Nakagawa, H. (690) 236
Ikeda, T., Waldbillig, R.J. and Puro, D.G.
Truncation of IGF-I yields two mitogens for retinal Müller glial cells (686) 87
Ikeda, Y., see Hisanaga, K. (684) 79
Ikegaya, Y., Saito, H. and Abe, K.
Requirement of basolateral amygdala neuron activity for the induction of long-term potentiation in the dentate gyrus in vivo (671) 351
Ikenaka, K., see Ono, J. (671) 141
Ikeuchi, Y., see Nishizaki, T. (687) 214
Ikonomovic, M.D., see Yasuda, R.P. (678) 161
Ikuta, F., see Wakabayashi, K. (705) 267
Ilyutchenok, R.Yu., see Dubrovina, N.I. (670) 347
Imaki, J., see Ohki, K. (696) 140
Imaki, T., see Shibasaki, T. (670) 169
Imaki, T., see Shibasaki, T. (688) 189
Imanaga, I., see Inoue, M. (687) 199
Imel, K.M., see White, S.R. (681) 167
Imoto, T., see Miyasaka, A. (676) 63
Imperato, A., see Marrosu, F. (671) 329
Inase, M., see Tokuno, H. (703) 217
Inenaga, K., Nagatomo, T., Honda, E., Ueta, Y. and Yamashita, H.
GABAergic inhibitory inputs to subfornical organ neurons in rat slice preparations (705) 85
Ingram, C.D., see Moos, F.C. (669) 309
Ingram, C.D., see Terenzi, M.G. (672) 289
Ingram, D.K., see Kuo, H. (705) 31
Ino, N., see Hara, A. (697) 247
Inoue, H., Ochi, M., Shibata, S. and Watanabe, S.
Effects of transient forebrain ischemia on long-term enhancement of dopamine release in rat striatal slices (671) 95
Inoue, K., see Koizumi, S. (673) 75
Inoue, K., see Koizumi, S. (673) 75
Inoue, M., Fujishiro, N. and Imanaga, I.
Mg^{2+}-dependent phosphatase as an inhibitory mediator of the nonselective cation current induced by aluminum fluoride in guinea-pig chromaffin cells (687) 199

Inoue, M., see Hawkins, R.L. (704) 1
Inoue, T., see Matsuo, R. (689) 289
Inturrisi, C.E., see Jenab, S. (691) 69
Inuzuka, T., see Hozumi, I. (688) 143
Invernizzi, R., Bramante, M. and Samanin, R.
Extracellular concentrations of serotonin in the dorsal hippocampus after acute and chronic treatment with citalopram (696) 62
Invernizzi, R., Pozzi, L. and Samanin, R.
Further studies on the effects of chronic clozapine on regional extracellular dopamine levels in the brain of conscious rats (670) 165
Invernizzi, R., see Pozzi, L. (692) 265
Iqbal, J., Swanson, J.J., Prins, G.S. and Jacobson, C.D.
Androgen receptor-like immunoreactivity in the Brazilian opossum brain and pituitary: distribution and effects of castration and testosterone replacement in the adult male (703) 1
Iqbal, K., see Ruben, G.C. (675) 1
Iramina, K., see Yoshiura, T. (703) 139
Iribar, C., Esteban, M.J., Martinez, J.M. and Peinado, J.M.
Decrease in cytosolic Aspartyl-aminopeptidase but not in Alanyl-aminopeptidase activity in the frontal cortex of the aged rat (687) 211
Irifune, M., see Sato, T. (704) 117
Isaacson, R.L., Varner, J.A., Baars, J.-M. and De Wied, D.
The effects of pregnenolone sulfate and ethylestrenol on retention of a passive avoidance task (689) 79
Iscoe, S., see Di Pasquale, E. (695) 271
Iseki, E., see Nishimura, T. (695) 137
Ishibashi, H., Yatani, A. and Akaike, N.
Block of P-type Ca^{2+} channels in freshly dissociated rat cerebellar Purkinje neurons by diltiazem and verapamil (695) 88
Ishibashi, Y., see Nakagawa, Y. (681) 126
Ishibashi, Y., see Nakagawa, Y. (683) 209
Ishida, G., see Saji, M. (703) 165
Ishida, N., see Watanabe, K. (684) 179
Ishiguro, H., see Hozumi, I. (688) 143
Ishihara, A., Roy, R.R. and Edgerton, V.R.
Succinate dehydrogenase activity and soma size relationships among cat dorsal root ganglion neurons (676) 212
Ishihara, T., see Akiyama, K. (679) 212
Ishii, Y., see Mizuguchi, M. (697) 235
Ishikawa, K., Kabeya, K., Shinoda, M., Katakai, K., Mori, M. and Tatemoto, K.
Meninges play a neurotrophic role in the regeneration of vasopressin nerves after hypophysectomy (677) 20
Ishikawa, K., Ohe, Y. and Tatemoto, K.
Synthesis and secretion of insulin-like growth factor (IGF)-II and IGF binding protein-2 by cultivated brain meningeal cells (697) 122
Ishimaru, H., Takahashi, A., Ikarashi, Y. and Maruyama, Y.
Pentobarbital protects against CA1 pyramidal cell death but not dysfunction of hippocampal cholinergic neurons following transient ischemia (673) 112
Ishizuka, S., see Hayashi, H. (686) 194
Ishizuka, T., see Kubo, T. (686) 1
Islam, N., Aftabuddin, M., Moriwaki, A., Hattori, Y. and Hori, Y.
Increase in the calcium level following anodal polarization in the rat brain (684) 206
Isom, G.E., see Pavlaković, G. (676) 205
Isono, M., see Asakuno, K. (702) 23
Itano, Y. and Nomura, Y.
1-Methyl-4-phenyl-pyridinium ion (MPP^+) causes DNA fragmentation and increases the Bcl-2 expression in human neuroblastoma, SH-SY5Y cells, through different mechanisms (704) 240
Ito, H., see Kawakami, N. (697) 104
Ito, S., see Nishihara, I. (677) 138
Ito, U., see Hanyu, S. (686) 44
Itoh, T., see Saito, T. (695) 240
Itoyama, Y., see Abe, K. (683) 251
Itoyama, Y., see Aoki, M. (669) 189
Itoyama, Y., see Araki, T. (704) 227
Itoyama, Y., see Fukudo, S. (675) 98
Itoyama, Y., see Kato, H. (679) 1
Itoyama, Y., see Kato, H. (694) 85
Itoyama, Y., see Mizuno, Y. (686) 115
Itzhak, Y., Roig-Cantisano, A., Dombro, R.S. and Norenberg, M.D.
Acute liver failure and hyperammonemia increase peripheral-type benzodiazepine receptor binding and pregnenolone synthesis in mouse brain (705) 345
Itzik, A., see Ben-Hur, T. (702) 17
Iudicello, M., see Bertolotto, A. (673) 344
Iuvone, P.M., see Rohrer, B. (686) 169
Ivanov, A.A., see Kreuter, J. (674) 171
Iwai, T., Hara, A., Niwa, M., Nozaki, M., Uematsu, T., Sakai, N. and Yamada, H.
Temporal profile of nuclear DNA fragmentation in situ in gerbil hippocampus following transient forebrain ischemia (671) 305
Iwaki, A., see Iwaki, T. (673) 47
Iwaki, T., Iwaki, A., Fukumaki, Y. and Tateishi, J.
αB-Crystallin in C6 glioma cells supports their survival in elevated extracellular K^+: the implication of a protective role of αB-crystallin accumulation in reactive glia (673) 47
Iwanaga, K., see Wakabayashi, K. (705) 267
Iwanaga, M., see Sano, M. (688) 213
Iwano, H., see Yamamuro, Y. (684) 1
Iwasaki, T., see Nakagawa, Y. (686) 70
Iwata, K., Kanda, K., Tsuboi, Y., Kitajima, K. and Sumino, R.
Fos induction in the medullary dorsal horn and C1 segment of the spinal cord by acute inflammation in aged rats (678) 127
Iwata, Y., see Mori, N. (703) 184
Iyer, V.G., Reid, K.H., Young, C., Miller, J. and Schurr, A.
Early, but not late, antiepileptic treatment reduces relapse of sound-induced seizures in the post-ischemic rat (689) 159
Izquierdo, I., see Bernabeu, R. (685) 163

J

Jackisch, R., see Cassel, J.-C. (704) 153
Jackisch, R., see Lauth, D. (692) 174
Jackson, B.P. and Wightman, R.M.
Dynamics of 5-hydroxytryptamine released from dopamine neurons in the caudate putamen of the rat (674) 163
Jackson, D., see Mura, A. (704) 51
Jackson, K.W., see Schechter, R. (670) 1
Jacob, J.M.
Fast axonal transport rates are unchanged in 6- and 24-month F344 rats (699) 154
Jacobowitz, D.M., see Arai, R. (673) 339
Jacobowitz, D.M., see Ichikawa, H. (679) 205
Jacobowitz, D.M., see Krzywkowski, P. (705) 273
Jacobson, C.D., see Iqbal, J. (703) 1
Jaeger, D., Gilman, S. and Aldridge, J.W.
Neuronal activity in the striatum and pallidum of primates related to the execution of externally cued reaching movements (694) 111
Jaffard, R., see Béracochéa, D.J. (670) 53
Jaffard, R., see Micheau, J. (685) 99
Jahnsen, H., see Rønn, L.C.B. (677) 145
Jakoi, E.R., Panchision, D.M., Gerwin, C.M. and DeLorenzo, R.J.
Post-transcriptional regulation of gene expression in hippocampal neurons by glutamate receptor activation (693) 124
Jalenques, I., Albuisson, E., Despres, G. and Romand, R.
Distribution of glial fibrillary acidic protein (GFAP) in the cochlear nucleus of adult and aged rats (686) 223
Jane, D.E., see Attwell, P.J.E. (698) 155
Janik, D., Mikkelsen, J.D. and Mrosovsky, N.
Cellular colocalization of Fos and neuropeptide Y in the intergeniculate leaflet after nonphotic phase-shifting events (698) 137
Janiri, L., see Santarelli, M. (698) 241
Janis, L.S., Glasier, M.M., Martin, G., Stackman, R.W., Walsh, T.J. and Stein, D.G.
A single intraseptal injection of nerve growth factor facilitates radial maze performance following damage to the medial septum in rats (679) 99
Janković, B.D., see Laban, O. (676) 133
Jansen, A.S.P., Wessendorf, M.W. and Loewy, A.D.
Transneuronal labeling of CNS neuropeptide and monoamine neurons after pseudorabies virus injections into the stellate ganglion (683) 1
Jansen, A.S.P., see Sams, J.M. (687) 182
Jarnot, M.D. and Corbett, A.M.
High titer antibody to mammalian neuronal sodium channels produces sustained channel block (674) 159
Javors, M.A., King, T.S., Chang, X., Klein, N.A. and Schenken, R.S.

Partial characterization of K^+-induced increase in $[Ca^{2+}]_{cyt}$ and GnRH release in GT1-7 neurons (694) 49
Javoy-Agid, F., see Faucheux, B.A. (691) 115
Jaynes, C.D. and Turner, J.E.
Müller cell survival and proliferation in response to medium conditioned by the retinal pigment epithelium (678) 55
Jeanjean, A.P., see Maloteaux, J.-M. (687) 155
Jeanrenaud, B., see Doyle, P. (684) 47
Jehan, F., Neveu, I., Naveilhan, P., Wion, D. and Brachet, P.
Interactions between second messenger pathways influence NGF synthesis in mouse primary astrocytes (672) 128
Jehle, J., see Takahashi, S. (678) 21
Jelenic, P., see Godbout, R. (673) 157
Jeltsch, H., see Cassel, J.-C. (704) 153
Jen, L.S., see Yan, X.X. (669) 285
Jenab, S., Kest, B. and Inturrisi, C.E.
Assessment of delta opioid antinociception and receptor mRNA levels in mouse after chronic naltrexone treatment (691) 69
Jeng, A.Y., see Hsu, L. (703) 72
Jenkins, T.A., Chai, S.Y., Howells, D.W. and Mendelsohn, F.A.O.
Intrastriatal angiotensin II induces turning behaviour in 6-hydroxydopamine lesioned rats (691) 213
Jenkins, T.A., see Gundlach, A.L. (672) 214
Jennings, R.A., Hambright Keiger, C.J. and Walker, J.C.
Time course of reinnervation of the olfactory bulb after transection of the primary olfactory nerve in the pigeon (683) 159
Jerusalinsky, D., see Bernabeu, R. (685) 163
Jhamandas, K., see Connop, B.P. (676) 124
Jhamandas, K., see Wang, L. (697) 130
Ji, R.-R., see Zhang, Q. (705) 149
Jia, C., see Halpern, M. (677) 157
Jia, H., see Zhang, Y.-Q. (696) 205
Jian, S., see Montero, V.M. (690) 189
Jiang, C., see O'Reilly, J.P. (683) 179
Jiang, J., see Liu, K.J. (685) 91
Jiang, N., see Zhang, R.-L. (682) 182
Jiang, N., see Zhang, Z.G. (698) 79
Jiang, Z.-G., Nelson, C.S. and Allen, C.N.
Melatonin activates an outward current and inhibits I_h in rat suprachiasmatic nucleus neurons (687) 125
Jin, Y., see Fergus, A. (694) 78
Joanny, P., see Mialon, P. (676) 352
Johanson, C.E., see Palm, D.E. (691) 1
Johanson, S.O., Crouch, M.F. and Hendry, I.A.
Retrograde axonal transport of signal transduction proteins in rat sciatic nerve (690) 55
Johanson, S.O., see Hendry, I.A. (700) 157
Johansson, S., Sundgren, A.K. and Klimenko, V.
Graded action potentials generated by neurons in rat hypothalamic slices (700) 240
Johnson, A.E., Barberis, C. and Albers, H.E.
Castration reduces vasopressin receptor binding in the hamster hypothalamus (674) 153
Johnson, A.K., see Menani, J.V. (695) 250
Johnson, A.K., see Ohman, L.E. (695) 275
Johnson, A.K., see Travis, K.A. (686) 17
Johnson, A.R., see Fok-Seang, J. (689) 207
Johnson, B.A., Woo, C.C., Duong, H., Nguyen, V. and Leon, M.
A learned odor evokes an enhanced Fos-like glomerular response in the olfactory bulb of young rats (699) 192
Johnson, B.M., see Del Cerro, M.C.R. (696) 213
Johnson, E.A., see Cratty, M.S. (675) 297
Johnson, K.B., see McCown, T.J. (701) 117
Johnson, M.D., see Richardson Morton, K.D. (698) 185
Johnson, M.J., see Alloway, K.D. (691) 46
Johnson, P.B., see Gonchar, Y.A. (697) 27
Johnson, R.L., see Savelli, J.E. (682) 41
Johnson, R.M., see Emmett, C.J. (673) 199
Johnson, T.A., see Gatti, P.J. (693) 133
Johnson, T.A., see Massari, V.J. (679) 227
Jöhren, O., Viswanathan, M. and Saavedra, J.M.
Expression of non-angiotensin II [^{125}I]CGP 42112 binding sites on activated microglia after kainic acid induced neurodegeneration (702) 153
Jolles, J., see Prickaerts, J. (674) 142
Jolliffe, V.A., see Kidd, B.L. (688) 72
Jones, C.A., see Perez, E. (684) 56
Jones, C.R.N., see Lane, C.M. (698) 15
Jones, E.A., see Yurdaydin, C. (679) 42
Jones, E.G., see Akbarian, S. (699) 297
Jones, N., Stelz, T., Batini, C. and Caston, J.
Effects of lesion of the inferior olivary complex in learning of the equilibrium behavior in the young rat during ontogenesis. I. Total lesion of the inferior olive by 3-acetylpyridine (697) 216
Joo, K., see Cho, H.-J. (695) 96
Jope, R.S., see Williams, M.B. (685) 169
Jordan, D., Kermadi, I., Rambaud, C., Gilly, R., Bouvier, R. and Kopp, N.
Regional distribution of substance P binding sites in the brainstem of the human newborn (695) 117
Jorgensen, S.L., see Neary, J.T. (675) 27
Joseph-Bravo, P., see De Gortari, P. (679) 144
Joseph, J.A., Cao, G. and Cutler, R.C.
In vivo or in vitro administration of the nitrone spin-trapping compound, *n*-tert-butyl-α-phenylnitrone, (PBN) reduces age-related deficits in striatal muscarinic receptor sensitivity (671) 73
Joseph, J.A., Villalobos-Molina, R., Yamagami, K., Roth, G.S. and Kelly, J.
Age-specific alterations in muscarinic stimulation of K^+-evoked dopamine release from striatal slices by cholesterol and *S*-adenosyl-L-methionine (673) 185
Joseph, R., Dou, D. and Tsang, W.
Neuronatin mRNA: alternatively spliced forms of a novel brain-specific mammalian developmental gene (690) 92
Joseph, S.A., see Tassorelli, C. (682) 167
Joseph, S.A., see Tassorelli, C. (695) 37
Jost, N., see Tschöpe, C. (690) 15
Jourdan, D., see Ardid, D. (695) 253
Jousmäki, V., see Forss, N. (685) 68
Jouvet, M., see El Kafi, B. (686) 150
Juárez, J., Corsi-Cabrera, M. and Del Río-Portilla, I.
Effects of prenatal testosterone treatment on sex differences in the EEG activity of the rat (694) 21
Julesz, J., see Sarnyai, Z. (675) 89
Jung, M.E., see Egilmez, Y. (701) 142
Junghans, U., see Stichel, C.C. (704) 263
Junien, J.-L., see Lockhart, B.P. (675) 110
Junn, F.S., see Steece-Collier, K. (676) 404
Juraska, J.M., see Warren, S.G. (703) 26
Jurzak, M., Müller, A.R. and Gerstberger, R.
AVP-fragment peptides induce Ca^{2+} transients in cells cultured from rat circumventricular organs (673) 349
Justice, Jr, J.B., see Gong, W. (683) 221
Juurlink, B.H.J., see Husain, J. (698) 86
Juvonen, R.O., see Laitinen, J.T. (694) 246
Juzans, P., see Angaut-Petit, D. (681) 213

K

Kaartinen, K., see Vanhatalo, S. (669) 275
Kabeya, K., see Ishikawa, K. (677) 20
Kadar, T., see Bachar, C. (682) 231
Kaddis, F.G., Uretsky, N.J. and Wallace, L.J.
DNQX in the nucleus accumbens inhibits cocaine-induced conditioned place preference (697) 76
Kagawa, T., see Ono, J. (671) 141
Kagaya, A., see Kugaya, A. (682) 151
Kahn, M.A., Ellison, J.A., Speight, G.J. and De Vellis, J.
CNTF regulation of astrogliosis and the activation of microglia in the developing rat central nervous system (685) 55
Kaisho, Y., see Tojo, H. (669) 163
Kajiwara, K., Sugaya, E., Kimura, M., Katsuki, M., Nagasawa, H., Yuyama, N., Tsuda, T., Sugaya, A., Motoki, M., Ookura, T. and Shimizu-Nishikawa, K.
Cloning and characterization of pentylenetetrazol-related cDNA, PTZ-17 (671) 170
Kakehata, S., see Yamamoto, T. (677) 89
Kakita, A., see Wakabayashi, K. (705) 267
Kalaria, R., see Castellani, R. (696) 268
Kalaria, R.N. and Pax, A.B.
Increased collagen content of cerebral microvessels in Alzheimer's disease (705) 349
Kalivas, P.W. and Duffy, P.
Selective activation of dopamine transmission in the shell of the nucleus accumbens by stress (675) 325
Kalmbacher, C.E., see Campbell, K.A. (702) 110
Kalra, P.S., Norlin, M. and Kalra, S.P.
Neuropeptide Y stimulates β-endorphin release in the basal hypothalamus: role of gonadal steroids (705) 353
Kalra, P.S., see Dube, M.G. (690) 275
Kalra, P.S., see Phelps, C.P. (688) 193

Kalra, S.P., see Dube, M.G. (690) 275
Kalra, S.P., see Horvath, T.L. (675) 321
Kalra, S.P., see Kalra, P.S. (705) 353
Kalra, S.P., see Phelps, C.P. (688) 193
Kalra, S.P., see Xu, B. (698) 227
Kalsbeek, A., Buijs, R.M., Engelmann, M., Wotjak, C.T. and Landgraf, R.
In vivo measurement of a diurnal variation in vasopressin release in the rat suprachiasmatic nucleus (682) 75
Kamada, H., see Hiramatsu, M. (697) 44
Kamata, Y., see Sato, T. (704) 117
Kametani, F., Tanaka, K., Tokuda, T. and Allsop, D.
The immunoreactive profile at the N-terminal region of Aβ 1–39/40 but not Aβ 1–42 changes with transition from monomer/dimer to further peptide aggregates (703) 237
Kameyama, T., see Ukai, M. (673) 335
Kamiya, H., see Yoshino, M. (695) 179
Kampfl, A., see Whitson, J.S. (694) 213
Kamphuis, W., Hendriksen, E. and Lopes da Silva, F.H.
Isozyme specific changes in the expression of protein kinase C isozyme (α–ζ) genes in the hippocampus of rats induced by kindling epileptogenesis (702) 94
Kanai, M., see Iizuka, T. (702) 275
Kanda, K., see Iwata, K. (678) 127
Kaneko, H. and Taché, Y.
TRH in the dorsal motor nucleus of vagus is involved in gastric erosion induced by excitation of raphe pallidus in rats (699) 97
Kanemasa, T., Asakura, K. and Ninomiya, M.
κ-Opioid agonist U50488 inhibits P-type Ca^{2+} channels by two mechanisms (702) 207
Kang, M., see Gordey, M. (691) 125
Kangrga, I.M. and Loewy, A.D.
Whole-cell recordings from visualized C1 adrenergic bulbospinal neurons: ionic mechanisms underlying vasomotor tone (670) 215
Kanje, M., see Danielsen, N. (681) 105
Kanjhan, R., Lipski, J., Kruszewska, B. and Rong, W.
A comparative study of pre-sympathetic and Bötzinger neurons in the rostral ventrolateral medulla (RVLM) of the rat (699) 19
Kanthan, R., see Shuaib, A. (702) 199
Kanthasamy, A.G., Matsumoto, R.R., Gunasekar, P.G. and Truong, D.D.
Excitoprotective effect of felbamate in cultured cortical neurons (705) 97
Kapás, L., see Takahashi, S. (690) 241
Kapcala, L.P. and Aguilera, G.
Modulation of corticotropin-releasing hormone stimulated cyclic adenosine monophosphate production by brain cells (678) 207
Kaplan, J.R., see Fontenot, M.B. (705) 105
Kappler, J., see Stichel, C.C. (704) 263
Karanth, K.S., see Kumar, K.B. (699) 293
Karasawa, N., see Arai, R. (669) 145
Karius, D.R. and Speck, D.F.
Short-latency excitation of phrenic motor output mediated by non-NMDA receptors (682) 235
Karkanias, G.B. and Etgen, A.M.
A thermodynamic analysis of estrogen regulation of α_2-adrenoceptor binding (674) 26
Karler, R., Calder, L.D., Thai, L.H. and Bedingfield, J.B.
The dopaminergic, glutamatergic, GABAergic bases for the action of amphetamine and cocaine (671) 100
Karlsson, J.-O., see Blomgren, K. (684) 136
Karlsson, J.-O., see Blomgren, K. (684) 143
Karr, T.L., see Alcantara, A.A. (701) 47
Karr, T.L., see Srinivasan, S. (701) 39
Karr, T.L., see Werner, D. (701) 55
Kashiwagi, S., see Kawakami, N. (697) 104
Kasicki, S., see Sławińska, U. (678) 117
Kask, A.M., see Boldry, R.C. (692) 259
Kask, A.M., see Papa, S.M. (701) 13
Kasperaitis, M., see Eggen, B.J.L. (690) 73
Kassell, N.F., see Fergus, A. (694) 78
Kastin, A.J., see Banks, W.A. (695) 59
Kastin, A.J., see Maness, L.M. (700) 83
Katada, E., see Ojika, K. (701) 19
Katada, T., see Mizuguchi, M. (697) 235
Katagai, T., see Watanabe, K. (684) 179
Katakai, K., see Ishikawa, K. (677) 20
Katayama, T., see Akasaka, K. (692) 283
Katayama, T., see Murakami, N. (693) 1
Katayama, Y., see Kawamata, T. (674) 196
Kato, H., Kogure, K., Araki, T. and Itoyama, Y.
Graded expression of immunomolecules on activated microglia in the hippocampus following ischemia in a rat model of ischemic tolerance (694) 85
Kato, H., Kogure, K., Liu, X.-H., Araki, T., Kato, K. and Itoyama, Y.
Immunohistochemical localization of the low molecular weight stress protein HSP27 following focal cerebral ischemia in the rat (679) 1
Kato, H., see Araki, T. (704) 227
Kato, I., Watanabe, S., Sato, S. and Norita, M.
Pretectofugal fibers from the nucleus of the optic tract in monkeys (705) 109
Kato, K., see Kato, H. (679) 1
Kato, M., see Araki, T. (693) 207
Kato, M., see Nishimura, T. (695) 137
Kato, R., see Sato, Y. (692) 66
Katoh, Y.Y., Benedek, G. and Deura, S.
Bilateral projections from the superior colliculus to the suprageniculate nucleus in the cat: A WGA–HRP/double fluorescent tracing study (669) 298
Katsuki, M., see Kajiwara, K. (671) 170
Kaufman, M.P., see Motekaitis, A.M. (671) 314
Kaufman, M.P., see Wong, M.K.C. (683) 149
Kaufmann, W., Kerschbaum, H.H., Hauser-Kronberger, C., Hacker, G.W. and Hermann, A.
Distribution and seasonal variation of vasoactive intestinal (VIP)-like peptides in the nervous system of *Helix pomatia* (695) 125
Kaur, C., see Lu, J. (699) 275
Kaura, S., see Attwell, P.J.E. (698) 155
Kavaliers, M. and Kinsella, D.M.
Male preference for the odors of estrous female mice is reduced by the neurosteroid pregnenolone sulfate (682) 222
Kawaguchi, N., see Yamada, T. (674) 175
Kawakami, N., Kashiwagi, S., Kitahara, T., Yamashita, T. and Ito, H.
Effect of local administration of basic fibroblast growth factor against neuronal damage caused by transient intracerebral mass lesion in rats (697) 104
Kawakami, T., Takenaka, T., Hori, H., Hashimoto, Y. and Kusakabe, T.
Effects of acetylcholine and adrenaline on axoplasmic transport at different regions of mouse superior cervical ganglion cells in culture (683) 88
Kawamata, T., Katayama, Y., Hovda, D.A., Yoshino, A. and Becker, D.P.
Lactate accumulation following concussive brain injury: the role of ionic fluxes induced by excitatory amino acids (674) 196
Kawamata, T., see Tooyama, I. (691) 235
Kawano, H. and Masuko, S.
Substance P innervation of neurons projecting to the paraventricular hypothalamic nucleus in the rat nucleus tractus solitarius (689) 136
Kawarabayashi, T., see Iizuka, T. (702) 275
Kawashima, S., see Blomgren, K. (684) 143
Kawata, M., see Ueda, S. (673) 325
Kawata, M., see Ueta, Y. (677) 221
Kawazoe, N., see Sesoko, S. (671) 38
Kayahara, T., see Shiroyama, T. (704) 130
Kazee, A.M., see Wetzel, D.M. (679) 72
Kazemi, H., see Burton, M.D. (670) 39
Kearns, C.M. and Gash, D.M.
GDNF protects nigral dopamine neurons against 6-hydroxydopamine in vivo (672) 104
Kechagias, S. and Broman, J.
Immunocytochemical evidence for vesicular storage of glutamate in cat spinocervical and cervicothalamic tract terminals (675) 316
Keele, N.B., see Arvanov, V.L. (669) 140
Kelley, K.H., see Gannon, R.L. (694) 264
Kelley, K.W., see Bluthé, R.-M. (677) 171
Kelly, J., see Joseph, J.A. (673) 185
Kelly, J.S., see Hodgkiss, J.P. (705) 241
Kelly, R.M., see Walsh, T.J. (702) 233
Kem, W.R., see Arendash, G.W. (674) 252
Kemper, R.H.A., see Krugers, H.J. (690) 41
Kempermann, G. and Volk, B.
Phenytoin inhibits expression of microtubule-associated protein 2 and influences cell-viability and neurite growth of cultured cerebellar granule cells (687) 194
Kendrick, A.M., Rand, M.S. and Crews, D.
Electrolytic lesions to the ventromedial hypothalamus abolish receptivity in female whiptail lizards, *Cnemidophorus uniparens* (680) 226
Kendrick, K.M., see Lévy, F. (669) 197
Kenessey, A., Yen, S.-H., Liu, W.-K., Yang, X.-R. and Dunlop, D.S.
Detection of D-aspartate in tau proteins associated with Alzheimer paired helical filaments (675) 183
Kennaway, D.J., see Moyer, R.W. (675) 345
Kennedy, C., see Takahashi, S. (678) 21
Kent, P.F., see Youngentob, S.L. (670) 82

Kerchner, M., Malsbury, C.W., Ward, O.B. and Ward, I.L.
Sexually dimorphic areas in the rat medial amygdala: resistance to the demasculinizing effect of prenatal stress (672) 251
Kermadi, I., see Jordan, D. (695) 117
Kerns, J.M., see Danielsen, N. (681) 105
Kerr, D.I.B., see Doolette, D.J. (677) 127
Kerr, R., see Maxwell, D.J. (690) 127
Kerschbaum, H.H., see Kaufmann, W. (695) 125
Kessler, J.A., see Ludlam, W.H. (685) 12
Kest, B., see Jenab, S. (691) 69
Keverne, E.B., see Lévy, F. (669) 197
Keynes, R.J., see Fok-Seang, J. (689) 207
Kharkevich, D.A., see Kreuter, J. (674) 171
Khawaja, X.
Quantitative autoradiographic characterisation of the binding of [^{3}H]WAY-100635, a selective 5-HT$_{1A}$ receptor antagonist (673) 217
Kicliter, E., see Lugo, N. (673) 161
Kida, E., Choi-Miura, N.-H. and Wisniewski, K.E.
Deposition of apolipoproteins E and J in senile plaques is topographically determined in both Alzheimer's disease and Down's syndrome brain (685) 211
Kida, E., Pluta, R., Lossinsky, A.S., Golabek, A.A., Choi-Miura, N.-H., Wisniewski, H.M. and Mossakowski, M.J.
Complete cerebral ischemia with short-term survival in rat induced by cardiac arrest. II. Extracellular and intracellular accumulation of apolipoproteins E and J in the brain (674) 341
Kidd, B.L., Cruwys, S.C., Garrett, N.E., Mapp, P.I., Jolliffe, V.A. and Blake, D.R.
Neurogenic influences on contralateral responses during experimental rat monoarthritis (688) 72
Kidd, B.L., see Garrett, N.E. (675) 203
Kiessling, M., see Bele, S. (704) 210
Kiessling, M., see Blendy, J.A. (681) 8
Kikuchi, H., see Fukuda, S.-i. (696) 30
Kikuchi, T., see Ichihara, N. (695) 173
Kikvadze, I. and Foster, G.A.
Action potential-dependent output of 5-hydroxytryptamine in the anaesthetized rat amygdalopiriform cortex is strongly inhibited by tonic 5-HT$_{1B}$-receptor stimulation (692) 111
Kim, D.G., see Heo, J.H. (671) 321
Kim, D.O., see Zhao, H.B. (700) 295
Kim, H.K., see Wu, G. (692) 118
Kim, J., see Kim, S.J. (675) 289
Kim, J.-H. and Hammond, D.N.
Septal cell lines derived from the trisomy 16 mouse: generation, characterization, and response to NGF (671) 299
Kim, J.-S., see Heo, J.H. (671) 321
Kim, K.-S., see Calingasan, N.Y. (677) 50
Kim, K.S., see Frackowiak, J. (676) 225
Kim, S., see Goplerud, J.M. (696) 161
Kim, S.J., Lim, W. and Kim, J.
Contribution of L- and N-type calcium currents to exocytosis in rat adrenal medullary chromaffin cells (675) 289
Kim, S.U., see McLarnon, J.G. (693) 8
Kim, S.U., see Satoh, J.-i. (704) 92
Kimelberg, H.K., see Aschner, M. (689) 1
Kimelberg, H.K., see Olson, J.E. (682) 197
Kimelberg, H.K., see Rising, L. (678) 91
Kimura, H., see Tooyama, I. (691) 235
Kimura, J., see Shimohama, S. (669) 217
Kimura, J., see Shimohama, S. (699) 125
Kimura, J., see Tomimoto, H. (672) 187
Kimura, M., see Kajiwara, K. (671) 170
Kimura, M., see Saji, M. (703) 165
Kindel, G., see Neafsey, E.J. (675) 279
Kinemuchi, H., see Tadano, T. (696) 21
King, D. and Finlay, J.M.
Effects of selective dopamine depletion in medial prefrontal cortex on basal and evoked extracellular dopamine in neostriatum (685) 117
King, P.R., Gundlach, A.L. and Louis, W.J.
Quantitative autoradiographic localization in rat brain of α_2-adrenergic and non-adrenergic I-receptor binding sites labelled by [^{3}H]rilmenidine (675) 264
King, T.M., see Bradley, P.M. (699) 103
King, T.S., see Javors, M.A. (694) 49
Kinsella, D.M., see Kavaliers, M. (682) 222
Kirby, L.G., Allen, A.R. and Lucki, I.
Regional differences in the effects of forced swimming on extracellular levels of 5-hydroxytryptamine and 5-hydroxyindoleacetic acid (682) 189
Kirby, M.T., Hampson, R.E. and Deadwyler, S.A.
Cannabinoids selectively decrease paired-pulse facilitation of perforant path synaptic potentials in the dentate gyrus in vitro (688) 114
Kirch, W., Neuhuber, W. and Tamm, E.R.
Immunohistochemical localization of neuropeptides in the human ciliary ganglion (681) 229
Kirchner, J.E., see Reed, G.E. (682) 1
Kirifides, M.L., see Sessler, F.M. (675) 171
Kirkham, T.C., see Leventhal, L. (685) 205
Kirouac, G.J. and Ganguly, P.K.
Cholecystokinin-induced release of dopamine in the nucleus accumbens of the spontaneously hypertensive rat (689) 245
Kisara, K., see Tadano, T. (696) 21
Kishi, K., see Kuroda, M. (677) 348
Kishikawa, K., see Yamamori, Y. (702) 162
Kiss, J.P., Zsilla, G., Mike, A., Zelles, T., Toth, E., Lajtha, A. and Vizi, E.S.
Subtype-specificity of the presynaptic α_2-adrenoceptors modulating hippocampal norepinephrine release in rat (674) 238
Kitabgi, P., see Nicot, A. (702) 279
Kitada, Y.
Anions modulate cation-induced responses of single units of the frog glossopharyngeal nerve (694) 253
Kitagawa, M., see Tojo, H. (669) 163
Kitahama, K., see Soulier, V. (674) 188
Kitahara, T., Takeda, N., Saika, T., Kubo, T. and Kiyama, H.
Effects of MK801 on Fos expression in the rat brainstem after unilateral labyrinthectomy (700) 182
Kitahara, T., see Kawakami, N. (697) 104
Kitajima, K., see Iwata, K. (678) 127
Kitani, Y., see Saito, S. (673) 93
Kitt, C., see Yao, J. (702) 32
Kittaka, H., see Tsunoda, K. (691) 18
Kiyama, H., see Kitahara, T. (700) 182
Klarman, M.L., see Krewson, C.E. (680) 196
Klee, M.R., see Papp, A. (684) 107
Klein, D.C., see Bernard, M. (696) 37
Klein, M., see Abe, M. (683) 200
Klein, N.A., see Javors, M.A. (694) 49
Klepper, S., Naftolin, F. and Piepmeier, J.M.
Verapamil treatment attenuates immunoreactive GFAP at cerebral cortical lesion site (695) 245
Kleppner, S.R., see Mantione, J.R. (671) 333
Kleschevnikov, A.M., see Sokolov, M.V. (672) 281
Klette, K.L., DeCoster, M.A., Moreton, J.E. and Tortella, F.C.
Role of calcium in sigma-mediated neuroprotection in rat primary cortical neurons (704) 31
Klette, K.L., see Clapp, L.E. (693) 101
Klette, K.L., see DeCoster, M.A. (671) 45
Kliemann, W., see Uemura, E. (671) 187
Klimenko, V., see Johansson, S. (700) 240
Klintsova, A., Levy, W.B. and Desmond, N.L.
Astrocytic volume fluctuates in the hippocampal CA1 region across the estrous cycle (690) 269
Klooster, J., Vrensen, G.F.J.M. and Van der Want, J.J.L.
Efferent synaptic organization of the olivary pretectal nucleus in the albino rat. An ultrastructural tracing study (688) 47
Klooster, J., Vrensen, G.F.J.M., Müller, L.J. and Van der Want, J.J.L.
Efferent projections of the olivary pretectal nucleus in the albino rat subserving the pupillary light reflex and related reflexes. A light microscopic tracing study (688) 34
Klump, G.M., see Scharmann, M.G. (682) 83
Knap, Jr., F.F., see Gitler, M.S. (687) 71
Knap Jr., F.F., see Gitler, M.S. (704) 151
Knight, E.S., see DeCoster, M.A. (671) 45
Knollema, S., see Krugers, H.J. (690) 41
Knuckey, N.W., see Palm, D.E. (691) 1
Kobari, M., Fukuuchi, Y., Tomita, M., Tanahashi, N., Takeda, H. and Yokoyama, M.
Calcitonin gene-related peptide (CGRP) and the regulation of cerebral parenchymal vessels (698) 95
Kobayashi, H., see Hozumi, I. (688) 143
Kobayashi, K., see Tsuzuki, K. (699) 260
Kobayashi, S., see Iino, S. (680) 128
Kobayashi, T., see Araki, T. (693) 207
Kobayashi, T., see Matsuno, K. (690) 200
Koceja, D.M., see Hoffman, M.A. (700) 303
Koch, M. and Friauf, E.
Glycine receptors in the caudal pontine reticular formation: are they important for the inhibition of the acoustic startle response? (671) 63
Koch, S., see Müller, W.E. (674) 133
Kocsis, J.D., see Honmou, O. (692) 273
Kodali, S.K., see Benington, J.H. (692) 79
Kodama, Y., see Watanabe, M. (670) 173

Kodsi, M.H. and Swerdlow, N.R.
Ventral pallidal GABA-A receptors regulate prepulse inhibition of acoustic startle (684) 26
Koed, K., see Linnet, K. (697) 251
Koenderink, M.J.Th. and Uylings, H.B.M.
Postnatal maturation of layer V pyramidal neurons in the human prefrontal cortex. A quantitative Golgi analysis (678) 233
Koenig, H.M., see Pelligrino, D.A. (704) 61
Kogan, A., Ross, W.N., Zecevic, D. and Lasser-Ross, N.
Optical recording from cerebellar Purkinje cells using intracellularly injected voltage-sensitive dyes (700) 235
Kogan, J.H. and Aghajanian, G.K.
Long-term glutamate desensitization in locus coeruleus neurons and its role in opiate withdrawal (689) 111
Kogure, K., see Abe, K. (683) 251
Kogure, K., see Aoki, M. (669) 189
Kogure, K., see Kato, H. (679) 1
Kogure, K., see Kato, H. (694) 85
Kogure, K., see Onodera, H. (684) 95
Kohira, I., see Akiyama, K. (679) 212
Köhling, R., see Lücke, A. (671) 222
Kohlmeier, K.A., see López-Rodríguez, F. (699) 201
Kohno, K., see Asakuno, K. (702) 23
Kohno, M., see Sano, M. (688) 213
Kohsaka, S., see Hisanaga, K. (684) 79
Koizumi, K., see Ueta, Y. (677) 221
Koizumi, S., Ikeda, M., Inoue, K., Nakazawa, K. and Inoue, K.
Enhancement by zinc of ATP-evoked dopamine release from rat pheochromocytoma PC12 cells (673) 75
Kojima, S., see Yoneda, Y. (679) 15
Kokkonen, G., see Zhang, L. (677) 177
Kolaj, M., Cerne, R. and Randić, M.
The opioid peptide dynorphin modulates AMPA and kainate responses in acutely isolated neurons from the dorsal horn (671) 227
Kolasa, K., Harrell, L.E. and Parsons, D.S.
The effect of hippocampal sympathetic ingrowth and cholinergic denervation on hippocampal M_2 cholinergic receptors (684) 201
Kolasa, K., see Ayyagari, V. (676) 394
Kolasa, K., see Harrell, L.E. (676) 386
Komatsu, C., see Shibata, K. (692) 71
Kominami, S., see Usui, M. (678) 10
Komisaruk, B.R., see Cueva-Rolón, R. (679) 267
Komisaruk, B.R., see Del Cerro, M.C.R. (696) 213
Komiyama, A., see Yamada, H. (681) 97
Kon, S.-i., see Mizuguchi, M. (697) 235
Kondo, H., see Nishimura, T. (695) 137
Kondoh, A., see Ikeda, M. (690) 225
Kondoh, A., see Nakagawa, H. (690) 236
Kondoh, T., see Pundt, L.L. (695) 25
Kong, L.-Y., see Bronstein, D.M. (704) 112
Konno, A., see Nemoto, T. (685) 33
Konno, H., see Mizuno, Y. (686) 115
Konstantinidou, A.D., see Flaris, N.A. (678) 99
Koob, G.F., see Caine, S.B. (692) 47
Koob, G.F., see Weinger, M.B. (669) 10
Koops, A., see Stichel, C.C. (704) 263
Kopin, I.J., see Pacak, K. (688) 242
Kopp, N., see Jordan, D. (695) 117
Korf, J., see Krugers, H.J. (690) 41
Korf, J., see Krugers, H.J. (696) 89
Korkmaz, S., Ljungblad, E. and Wahlström, G.
Interaction between flumazenil and the anesthetic effects of hexobarbital in the rat (676) 371
Kornblum, H.I., see Seroogy, K.B. (670) 157
Kornetsky, C., see Gescuk, B.D. (701) 279
Kornetsky, C., see Livezey, R.T. (692) 93
Korytko, A.I., Marcelino, J. and Blank, J.L.
Differential testicular responses to short daylength in deer mice are reflected by regional and morphological differences in the GnRH neuronal system (685) 135
Kosaka, K., see Nishimura, T. (695) 137
Kosoyan, O.P., see Finch, D.M. (670) 233
Kotani, M., Terashima, T. and Tai, T.
Developmental changes of ganglioside expressions in postnatal rat cerebellar cortex (700) 40
Kotti, T., see Halonen, T. (693) 217
Kotzbauer, P.T., see Flaris, N.A. (678) 99
Koutouzis, T.K., see Borlongan, C.V. (697) 254
Kow, L.-M., Tsai, Y.-F., Weiland, N.G., McEwen, B.S. and Pfaff, D.W.
In vitro electro-pharmacological and autoradiographic analyses of muscarinic receptor subtypes in rat hypothalamic ventromedial nucleus: implications for cholinergic regulation of lordosis (694) 29
Koyama, T., see Abekawa, T. (679) 200
Kozniewska, E., see Roberts, T.P.L. (699) 51
Kramár, E.A., see Roberts, K.A. (682) 13
Kramer, H.K., Poblete, J.C.P. and Azmitia, E.C.
3,4-Methylenedioxymethamphetamine ('Ecstasy') promotes the translocation of protein kinase C (PKC): requirement of viable serotonin nerve terminals (680) 1
Kratz, K.E., see Rieck, R.W. (672) 237
Krebs, L.T., see Roberts, K.A. (682) 13
Kreeger, J.S., Yukhananov, R.Yu. and Larson, A.A.
Altered *N*-methyl-D-aspartate (NMDA) activity in the mouse spinal cord following morphine is mediated by sigma activity (672) 83
Kreisman, N.R., LaManna, J.C., Liao, S.-C., Yeh, E.R. and Alcala, J.R.
Light transmittance as an index of cell volume in hippocampal slices: optical differences of interfaced and submerged positions (693) 179
Kresse, H., see Stichel, C.C. (704) 263
Kreuter, J., Alyautdin, R.N., Kharkevich, D.A. and Ivanov, A.A.
Passage of peptides through the blood–brain barrier with colloidal polymer particles (nanoparticles) (674) 171
Kreutzberg, G.W., see Weibel, D. (679) 249
Krewson, C.E., Klarman, M.L. and Saltzman, W.M.
Distribution of nerve growth factor following direct delivery to brain interstitium (680) 196
Krieger, M., see Battaglia, A.A. (696) 7
Krieglstein, J., see Müller, U. (678) 265
Kristensen, M.P., see Rector, D.M. (696) 151
Kristeva-Feige, R., Rossi, S., Pizzella, V., Tecchio, F., Romani, G.L., Erne, S., Edrich, J., Orlacchio, A. and Rossini, P.-M.
Neuromagnetic fields of the brain evoked by voluntary movement and electrical stimulation of the index finger (682) 22
Kristián, T., see OuYang, Y.-B. (676) 307
Kristiánová, V., see OuYang, Y.-B. (676) 307
Krueger, J.M., see Fang, J. (686) 23
Krueger, J.M., see Takahashi, S. (690) 241
Krugers, H.J., Knollema, S., Kemper, R.H.A., Ter Horst, G.J. and Korf, J.
Down-regulation of the hypothalamo-pituitary-adrenal axis reduces brain damage and number of seizures following hypoxia/ischaemia in rats (690) 41
Krugers, H.J., Medema, R.M., Postema, F. and Korf, J.
Region-specific alterations of calbindin-D28k immunoreactivity in the rat hippocampus following adrenalectomy and corticosterone treatment (696) 89
Kruk, Z.L., see Wieczorek, W. (699) 171
Kruk, Z.L., see Williams, J.E.G. (678) 225
Kruszewska, B., see Kanjhan, R. (699) 19
Krzywkowski, P., Jacobowitz, D.M. and Lamour, Y.
Calretinin-containing pathways in the rat forebrain (705) 273
Ksiezak-Reding, H., Leibowitz, R.L., Bowser, R. and Davies, P.
Binding of Alz 50 depends on Phe^8 in tau synthetic peptides and varies between native and denatured tau proteins (697) 63
Kubo, T., Ishizuka, T., Fukumori, R., Asari, T. and Hagiwara, Y.
Enhanced release of acetylcholine in the rostral ventrolateral medulla of spontaneously hypertensive rats (686) 1
Kubo, T., see Kitahara, T. (700) 182
Kucharczyk, J., see Roberts, T.P.L. (699) 51
Kugaya, A., Kagaya, A., Uchitomi, Y., Motohashi, N. and Yamawaki, S.
Inhibition of serotonin-induced Ca^{2+} mobilization by interleukin-1β in rat C6BU-1 glioma cells (682) 151
Kühnemann, S., Brown, T.J., Hochberg, R.B. and MacLusky, N.J.
Sexual differentiation of estrogen receptor concentrations in the rat brain: effects of neonatal testosterone exposure (691) 229
Kuhns, E.R., see Hara, S. (675) 190
Kuijpers, G.A.J., see Goping, G. (687) 35
Kuiken, T.A., Childress, D.S. and Rymer, W.Z.
The hyper-reinnervation of rat skeletal muscle (676) 113
Kuitunen, J., see Riekkinen Jr., P. (685) 46
Kulikov, A., see Chaouloff, F. (693) 169
Kumamoto, Y., see Sato, Y. (692) 66
Kumar, K.B. and Karanth, K.S.
Effects of central administration of arginine-vasopressin on aversive memory retrieval (699) 293
Kumashiro, S., Hashimoto, A. and Nishikawa, T.

Free D-serine in post-mortem brains and spinal cords of individuals with and without neuropsychiatric diseases (681) 117
Kunihara, M., see Takahashi, M. (675) 249
Kunika, N., see Tsukahara, T. (679) 178
Kunimatsu, M., see Onizuka, K. (697) 179
Kunkler, P.E., see Hwang, B.H. (690) 249
Kunko, P.M., see Smith, J.A. (683) 264
Kuno, M., see Gotani, H. (689) 281
Kuo, H., Ingram, D.K., Crystal, R.G. and Mastrangeli, A.
Retrograde transfer of replication deficient recombinant adenovirus vector in the central nervous system for tracing studies (705) 31
Kuo, J.-S., see Yang, C.-S. (698) 237
Kure, S., see Hisanaga, K. (684) 79
Kuroda, M., Murakami, K., Shinkai, M., Ojima, H. and Kishi, K.
Electron microscopic evidence that axon terminals from the mediodorsal thalamic nucleus make direct synaptic contacts with callosal cells in the prelimbic cortex of the rat (677) 348
Kuroda, S., see Akiyama, K. (679) 212
Kuroda, S., see Sato, K. (683) 279
Kurokouchi, A., see Mori, N. (703) 184
Kurucz, O.S., see Aicher, S.A. (693) 51
Kurucz, O.S., see Milner, T.A. (670) 121
Kus, L., Handa, R.J., Hautman, J.M. and Beitz, A.J.
Castration increases [^{125}I]MK801 binding in the hippocampus of male rats (683) 270
Kusakabe, T., see Kawakami, T. (683) 88
Kuschinsky, W., see Zeller, K. (698) 175
Kutscher, C.L., see Walsh, T.J. (702) 233
Kuwabara, T., Watanabe, H., Tsuji, S. and Yuasa, T.
Lactate rise in the basal ganglia accompanying finger movements: a localized ^{1}H-MRS study (670) 326
Kuwano, M., see Asakuno, K. (702) 23
Kuwayama, H., see Shimada, H. (682) 212
Kwak, S. and Nakamura, R.
Selective degeneration of inhibitory interneurons in the rat spinal cord induced by intrathecal infusion of acromelic acid (702) 61

L

Laban, O., Dimitrijević, M., Von Hoersten, S., Marković, B.M. and Janković, B.D.
Experimental allergic encephalomyelitis in adult DA rats subjected to neonatal handling or gentling (676) 133
Labandeira-Garcia, J.L., see Liste, I. (700) 1
Labarca, R., see Sepúlveda, C. (674) 104
Labrie, C., see Godbout, R. (673) 157
Labrie, F., see Pelletier, G. (704) 233
Lacey, K., see Burnet, P.W.J. (676) 157
Lacombe, P., see Vaucher, E. (691) 57
Ladenheim, B., see Hirata, H. (677) 345
Laduron, P.M., see Maloteaux, J.-M. (687) 155
Laemle, L.K., Ottenweller, J.E. and Fugaro, C.
Diurnal variations in vasoactive intestinal polypeptide-like immunoreactivity in the suprachiasmatic nucleus of congenitally anophthalmic mice (688) 203
Lafaille, F., see Mrini, A. (669) 303
Laferrière, A., see Yan, S. (687) 217
Lafferty, K.B., see Misiaszek, J.E. (677) 69
Lagarde, D., see Piérard, C. (693) 251
Laguzzi, R., see Merahi, N. (669) 130
Lahiri, S., Buerk, D.G., Chugh, D., Osanai, S. and Mokashi, A.
Reciprocal photolabile O_2 consumption and chemoreceptor excitation by carbon monoxide in the cat carotid body: evidence for cytochrome a_3 as the primary O_2 sensor (684) 194
Lai, C.H. and Chan, Y.S.
Properties of otolith-related vestibular nuclear neurons in response to bidirectional off-vertical axis rotation of the rat (693) 39
Lai, J., see Mayfield, K.P. (676) 358
Laitinen, J.T. and Juvonen, R.O.
A sensitive microassay reveals marked regional differences in the capacity of rat brain to generate carbon monoxide (694) 246
Lajtha, A., see Benuck, M. (678) 259
Lajtha, A., see Kiss, J.P. (674) 238
Lalonde, R., see Monnier, C. (702) 169
LaManna, J.C., Griffith, J.K., Cordisco, B.R., Bell, H.E., Lin, C.-W., Pundik, S. and Lust, W.D.
Rapid recovery of rat brain intracellular pH after cardiac arrest and resuscitation (687) 175
LaManna, J.C., see Kreisman, N.R. (693) 179
Lambert, J.D.C., see Andreasen, M. (698) 193
Lambert, P.D., Phillips, P.J., Wilding, J.P.H., Bloom, S.R. and Herbert, J.
c-*fos* expression in the paraventricular nucleus of the hypothalamus following intracerebroventricular infusions of neuropeptide Y (670) 59
Lamm, M., see Russell, V. (676) 343
Lamour, Y., see Krzywkowski, P. (705) 273
Landgraf, R., see Kalsbeek, A. (682) 75
Landolt, H.-P., Werth, E., Borbély, A.A. and Dijk, D.-J.
Caffeine intake (200 mg) in the morning affects human sleep and EEG power spectra at night (675) 67
Lane, C.M., Jones, C.R.N., Reisine, T., Yu, L. and Lee, N.M.
Alteration of OBCAM conformation as a result of opioid receptor expression and opioid ligand treatment (698) 15
Lane, J.D., see Egilmez, Y. (701) 142
Lane, R.D., see Bennett-Clarke, C.A. (702) 255
Lang, S., see Gescuk, B.D. (701) 279
Langford, M.T., see Sharp, J.W. (687) 114
Langub, Jr., M.C., see Watson, Jr., R.E. (689) 254
Lara, J., see Arévalo, R. (671) 112
Lara, J.M., see Velasco, A. (705) 315
Larcher, A., see Devillers, J.-P. (700) 173
Larnicol, N., see Wallois, F. (687) 143
Larocca, J.N., Rodriguez-Gabin, A.G., Rashbaum, W.K., Weidenheim, K.M. and Lyman, W.D.
Muscarinic receptor-dependent activation of phospholipase C in human fetal central nervous system organotypic tissue culture (701) 135
Larsen, P.J. and Vrang, N.
Neurones projecting to the hypothalamus from the brainstem A1 catecholaminergic cell group express glutamate-R2,3 receptor immunoreactivity (705) 209
Larsen, P.J., see Vrang, N. (684) 61
Larson, A.A., see Kreeger, J.S. (672) 83
Larson, G., see Gould, T.J. (684) 150
Lasater, E.M., see Pfeiffer-Linn, C.L. (701) 81
Lash, L.H., see Aschner, M. (689) 1
Laskosky, M.S., see Clapp, L.E. (693) 101
Lasser-Ross, N., see Kogan, A. (700) 235
Lau, C., see Weinger, M.B. (669) 10
Laulin, J.-P., see Devillers, J.-P. (700) 173
Lauth, D., Hertting, G. and Jackisch, R.
3,4-Diaminopyridine-evoked noradrenaline release in rat hippocampal slices: facilitation by endogenous or exogenous nitric oxide (692) 174
Lauth, D., see Cassel, J.-C. (704) 153
Lawson, S.N., see McCarthy, P.W. (704) 79
Layes, E., see Reuss, S. (695) 257
Le, H.Q., see Sanovich, E. (705) 125
Le, W.-D., Colom, L.V., Xie, W.-j., Smith, R.G., Alexianu, M. and Appel, S.H.
Cell death induced by β-amyloid 1–40 in MES 23.5 hybrid clone: the role of nitric oxide and NMDA-gated channel activation leading to apoptosis (686) 49
Lea, R.W., Georgiou, G.C., Li, Q., Sterling, R.J. and Sharp, P.J.
[^{14}C]2-Deoxyglucose uptake in the brain of the ring dove (*Streptopelia risoria*). I. Prolactin-induced uptake (700) 129
Lea, R.W., see Georgiou, G.C. (700) 137
Leão, R.M., Gomez, M.V., Collier, B. and Prado, M.A.M.
Inhibition of potassium-stimulated acetylcholine release from rat brain cortical slices by two high-affinity analogs of vesamicol (703) 86
Le Bars, D., see Ardid, D. (695) 253
Lechan, R.M., see Toni, R. (682) 101
Lecharny, J.-B., Salord, F., Henzel, D., Desmonts, J.-M. and Mantz, J.
Effects of thiopental, halothane and isoflurane on the calcium-dependent and -independent release of GABA from striatal synaptosomes in the rat (670) 308
Le Douarin, N.M., see Fadlallah, N. (675) 55
LeDoux, M.S., Lorden, J.F. and Meinzen-Derr, J.

Selective elimination of cerebellar output in the genetically dystonic rat (697) 91
Lee, C., Stonestreet, B.S., Oh, W., Outerbridge, E.W. and Cashore, W.J.
Postnatal maturation of the blood–brain barrier for unbound bilirubin in newborn piglets (689) 233
Lee, C.-M., see Shen, Y. (671) 282
Lee, C.L., Hrachovy, R.A., Smith, K.L., Frost Jr., J.D. and Swann, J.W.
Tetanus toxin-induced seizures in infant rats and their effects on hippocampal excitability in adulthood (677) 97
Lee, C.Y., Double, K.L. and Crocker, A.D.
Expression of stereotyped behaviour requires stimulation of nigral D_1 dopamine receptors (681) 205
Lee, D.C., see Seroogy, K.B. (670) 157
Lee, H.-S., see Cho, H.-J. (695) 96
Lee, J.-C., see Pan, W.H.T. (686) 249
Lee, K.S., see Fergus, A. (694) 78
Lee, N.M., see Lane, C.M. (698) 15
Lee, N.R., see Wolfe, M.S. (669) 100
Lee, R.-S., Smith, S.S., Chapin, J.K., Shimizu, N., Waterhouse, B.D., Maddux, B.N. and Woodward, D.J.
Effects of systemic and local ethanol on responses of rat cerebellar Purkinje neurons to iontophoretically applied norepinephrine and γ-aminobutyric acid (687) 12
Lee, R.-S., Smith, S.S., Chapin, J.K., Waterhouse, B.D., Shimizu, N., Maddux, B.N. and Woodward, D.J.
Effects of systemic and local ethanol on responses of rat cerebellar Purkinje neurons to iontophoretically applied γ-aminobutyric acid (687) 1
Lee, S., Barbanel, G. and Rivier, C.
Systemic endotoxin increases steady-state gene expression of hypothalamic nitric oxide synthase: comparison with corticotropin-releasing factor and vasopressin gene transcripts (705) 136
Lee, S.Y., see Holliday, J. (673) 141
Lee, S.Y., see Randall, R.D. (701) 238
Lee, V.M.-Y., see Mantione, J.R. (671) 333
Lee, W., Watanabe, M. and Glass, J.D.
Photoperiod affects the expression of neural cell adhesion molecule and polysialic acid in the hypothalamus of the siberian hamster (690) 64
Lee, Y.B., see Satoh, J.-i. (704) 92
Leeds, P., see Gao, X.-M. (703) 63
Lefauconnier, J.-M., see Benrabh, H. (692) 57
Lefrançois, L., Boulanger, L. and Gaudreau, P.
Effects of aging on pituitary growth hormone-releasing factor receptor binding sites: in vitro mimicry by guanyl nucleotides and reducing agents (673) 39
Leger, L., see El Kafi, B. (686) 150
Lehmann, A., see Puka-Sundvall, M. (705) 65
Lehning, E.J., Doshi, R., Stys, P.K. and LoPachin, Jr., R.M.
Mechanisms of injury-induced calcium entry into peripheral nerve myelinated axons: in vitro anoxia and ouabain exposure (694) 158
Leibowitz, R.L., see Ksiezak-Reding, H. (697) 63
Leidy, Jr., J.W., Cugini, Jr., C.D., Driscoll, H.K. and Chertow, B.S.
Time course of hypothalamic growth hormone-releasing hormone and somatostatin content in streptozocin diabetic rats: evidence for early changes in hypothalamic regulation (681) 84
Le Moal, M., see Bonhomme, N. (675) 215
Le Moal, M., see Haney, M. (698) 46
Le Moal, M., see Henry, C. (685) 179
Lemoine, P., see Mrini, A. (669) 303
Lengyel, Z., see Harkany, T. (695) 71
LeNovère, N., see Li, X.-M. (679) 157
Leon, M., see Coopersmith, R. (674) 230
Leon, M., see Johnson, B.A. (699) 192
Leon, M., see Najbauer, J. (674) 245
Leonard, S.S., see Breese, C.R. (674) 82
Leone, P., see Badiani, A. (670) 264
Leone, P., see Badiani, A. (690) 112
Leone, V.G., see Londei, T. (677) 61
Leong, S.-K., see Ruan, R.-S. (698) 163
Leranth, C., see Horvath, T.L. (675) 321
Lesa, G., see Romualdi, P. (672) 42
Lessov, N., see McCall, A.L. (670) 29
Lettvin, J.Y., see Scalia, F. (685) 187
Leung, C.G. and Mason, P.
Effects of isoflurane concentration on the activity of pontomedullary raphe and medial reticular neurons in the rat (699) 71
Leung, L.S. and Zhao, D.C.
Glial potentials evoked by single afferent pulses in hippocampal CA1 area in vitro (697) 262
Leung, L.S., see Heale, V.R. (690) 157
Leung, L.S., see Roth, L.R. (694) 40
Levant, B.
Differential sensitivity of [^{3}H]7-OH-DPAT-labeled binding sites in rat brain to inactivation by *N*-ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline (698) 146
Leventhal, L., Kirkham, T.C., Cole, J.L. and Bodnar, R.J.
Selective actions of central μ and κ opioid antagonists upon sucrose intake in sham-fed rats (685) 205
Leventhal, L., see Cole, J.L. (678) 168
Levick, V., Coffey, H. and D'Mello, S.R.
Opposing effects of thapsigargin on the survival of developing cerebellar granule neurons in culture (676) 325
Leviel, V., see Olivier, V. (695) 1
Levin, B.E., Brown, K.L., Pawar, G. and Dunn-Meynell, A.
Widespread and lateralized effects of acute traumatic brain injury on norepinephrine turnover in the rat brain (674) 307
Levin, B.E., see Dunn-Meynell, A.A. (675) 143
Levine, J.D., see Matos, F.F. (693) 187
Levine, S., see Romero, L.M. (676) 151
Levitt, P., see Wang, X.-H. (689) 32
Levy, A., see Bachar, C. (682) 231
Lévy, F., Kendrick, K.M., Goode, J.A., Guevara-Guzman, R. and Keverne, E.B.
Oxytocin and vasopressin release in the olfactory bulb of parturient ewes: changes with maternal experience and effects on acetylcholine, γ-aminobutyric acid, glutamate and noradrenaline release (669) 197
Levy, R., see Faucheux, B.A. (691) 115
Levy, W.B., see Klintsova, A. (690) 269
Lewis, D.V., see Brucato, F.H. (677) 326
Lewis, D.V., see Xie, C.W. (688) 56
Lhiaubet, A.-M., see Nicot, A. (702) 279
Li, A., see Wu, T. (683) 242
Li, B.-H., see Rowland, N.E. (675) 127
Li, B.-H., see Xu, B. (698) 227
Li, C., see McDonald, T.J. (675) 303
Li, H.-B., see Ni, J.-W. (673) 290
Li, Q., see Lea, R.W. (700) 129
Li, S., see Garcia de Yebenes, E. (674) 112
Li, T.-K., see Hwang, B.H. (690) 249
Li, W.Y., Czilli, D.L. and Simmons, L.K.
Neuronal membrane conductance activated by amyloid β peptide: importance of peptide conformation (682) 207
Li, X.-M., Chadi, G. and Fuxe, K.
Cholecystokinin octapeptide and the D_2 antagonist raclopride induce Fos-like immunoreactivity in the shell part of the rat nucleus accumbens via different mechanisms (684) 225
Li, X.-M., Zoli, M., Finnman, U.-B., LeNovère, N., Changeux, J.-P. and Fuxe, K.
A single (−)-nicotine injection causes change with a time delay in the affinity of striatal D_2 receptors for antagonist, but not for agonist, nor in the D_2 receptor mRNA levels in the rat substantia nigra (679) 157
Li, Y., see Rosenberg, P.A. (692) 227
Li, Y., see Yurdaydin, C. (679) 42
Li, Y.H., see Luo, Y.Q. (681) 65
Li, Z. and Banik, N.L.
The localization of mcalpain in myelin: immunocytochemical evidence in different areas of rat brain and nerves (697) 112
Liang, Y., Mestek, A., Yu, L. and Carr, L.G.
Cloning and characterization of the promoter region of the mouse μ opioid receptor gene (679) 82
Liao, S.-C., see Kreisman, N.R. (693) 179
Liberini, P., see Burgos, I. (692) 154
Lichtstein, D., see Bachar, C. (682) 231
Lichtstein, D., see Haver, E. (681) 75
Lidsky, T.I., Schneider, J.S., Yablonsky-Alter, E., Zuck, L.G. and Banerjee, S.P.
Taurine prevents haloperidol-induced changes in striatal neurochemistry and behavior (686) 104
Lidsky, T.I., see Schneider, J.S. (672) 112
Lim, A.T., see Yang, Z. (678) 251
Lim, A.T., see Yang, Z. (692) 129
Lim, W., see Kim, S.J. (675) 289
Limbrick Jr., D.D., Churn, S.B., Sombati, S. and DeLorenzo, R.J.
Inability to restore resting intracellular calcium levels as an early indicator of delayed neuronal cell death (690) 145
Lin, A.M.-Y. and Chai, C.-Y.
Dynamic analysis of ethanol effects on NMDA-evoked dopamine overflow in rat striatum (696) 15
Lin, B., see Green, E.J. (702) 145

Lin, C.-W., see LaManna, J.C. (687) 175
Lin, J.C., see Wang, Y. (693) 233
Lin, L., see Barton, C. (702) 55
Lin, N.-N., see Yang, C.-S. (698) 237
Lin, Q., see Yoshimoto, Y. (691) 25
Lin, R.C.-S., see Sessler, F.M. (675) 171
Lin, T., see Weinger, M.B. (669) 10
Linderoth, B., see Stiller, C.-O. (699) 231
Lindquist, D.G., see Fahey, J.M. (669) 183
Lindsay, A.D., see Yin, H.-z. (689) 265
Lindsay, R.M., see Nonomura, T. (683) 129
Lindsley, K.A., see Hay, M. (698) 169
Lindsley, K.A., see Hay, M. (705) 199
Lindstrom, J., see Barrantes, G.E. (672) 228
Ling, D.S.F. and Benardo, L.S.
Activity-dependent depression of monosynaptic fast IPSCs in hippocampus: contributions from reductions in chloride driving force and conductance (670) 142
Ling, E.-A., see Lu, J. (699) 275
Ling, E.A., see Tang, F.R. (691) 153
Linnemann, D., see Rønn, L.C.B. (677) 145
Linnet, K., Koed, K., Wiborg, O. and Gregersen, N.
Serotonin depletion decreases serotonin transporter mRNA levels in rat brain (697) 251
Liou, S.-Y., see Takahashi, M. (675) 249
Lipinski, W.J., Rusiniak, K.W., Hilliard, M. and Davis, R.E.
Nerve growth factor facilitates conditioned taste aversion learning in normal rats (692) 143
Lippe, W.R.
Relationship between frequency of spontaneous bursting and tonotopic position in the developing avian auditory system (703) 205
Lippmann, B.J., Yang, R., Barnett, D.W. and Misler, S.
Pharmacology of volume regulation following hypotonicity-induced cell swelling in clonal N1E115 neuroblastoma cells (686) 29
Lipski, J., see Kanjhan, R. (699) 19
Lipton, J.W., Olsen, R.W. and Ellison, G.D.
Length of continuous cocaine exposure determines the persistence of muscarinic and benzodiazepine receptor alterations (676) 378
Liste, I., Rozas, G., Guerra, M.J. and Labandeira-Garcia, J.L.
Cortical stimulation induces Fos expression in striatal neurons via NMDA glutamate and dopamine receptors (700) 1
Little, H.J., see Ripley, T.L. (699) 1
Liu, B., see McDermott, J.L. (698) 248
Liu-Chen, L.-Y., see Chen, X.-H. (688) 237
Liu, H., see Babcock, A.M. (705) 307
Liu, K.J., Bacic, G., Hoopes, P.J., Jiang, J., Du, H., Ou, L.C., Dunn, J.F. and Swartz, H.M.
Assessment of cerebral pO_2 by EPR oximetry in rodents: effects of anesthesia, ischemia, and breathing gas (685) 91
Liu, L., see Yang, C.-S. (698) 237
Liu, W., see Sessler, F.M. (675) 171
Liu, W.-K., see Kenessey, A. (675) 183
Liu, X. and Chen, Y.-Z.
Membrane-mediated inhibition of corticosterone on the release of arginine vasopressin from rat hypothalamic slices (704) 19
Liu, X.-H., see Kato, H. (679) 1
Livermore, C.L., see Nation, J.R. (702) 223
Livezey, R.T., Pearce, L.B. and Kornetsky, C.
The effect of MK-801 and SCH23390 on the expression and sensitization of morphine-induced oral stereotypy (692) 93
Liwnicz, B.H., see Packianathan, S. (688) 61
Ljubisavljević, M., Anastasijević, R. and Trifunjagić, D.
Changes in fusimotor discharge rate provoked by isotonic fatiguing muscle contractions in decerebrate cats (673) 126
Ljubisavljević, M., Radovanović, S., Vukčević, I. and Anastasijević, R.
Fusimotor outflow to pretibial flexors during fatiguing contractions of the triceps surae in decerebrate cats (691) 99
Ljungblad, E., see Korkmaz, S. (676) 371
Llabre, M.M., see McEchron, M.D. (682) 157
Lleixa, A., see Demêmes, D. (671) 83
Llorens, J., see Espino, A. (669) 19
Lo, T.-M. and Thayer, S.A.
Pharmacologic characterization of refilling inositol 1,4,5-trisphosphate-sensitive Ca^{2+} stores in NG108-15 cells (704) 10
Lockhart, B.P., Hamedi-Sangsari, F., Vignon, J., Privat, A. and Vila, J.
A *N*-methyl-D-aspartate receptor-mediated neurotoxic effect of aspartate-based hydroxamate compounds in rat primary neuronal cultures (670) 313
Lockhart, B.P., Soulard, P., Benicourt, C., Privat, A. and Junien, J.-L.
Distinct neuroprotective profiles for σ ligands against *N*-methyl-D-aspartate (NMDA), and hypoxia-mediated neurotoxicity in neuronal culture toxicity studies (675) 110
Loewy, A.D., see Jansen, A.S.P. (683) 1
Loewy, A.D., see Kangrga, I.M. (670) 215
Loewy, A.D., see Sams, J.M. (687) 182
Logan, A., see Gonzalez, A.M. (701) 201
Login, I.S., Borland, K. and Harrison, M.B.
Acute dopamine depletion potentiates independent stimulatory and inhibitory D_1 DA receptor-mediated control of striatal acetylcholine release in vitro (681) 209
Login, I.S., Borland, K., Harrison, M.B., Ragozzino, M.E. and Gold, P.E.
Acetylcholine release from dissociated striatal cells (697) 271
Lohmann, H. and Algür, Y.
Spatio–temporal summation of synaptic activity in visual cortical pyramidal cells in vitro (671) 275
Loizzo, A., see Diana, G. (686) 107
Lombardini, J.B.
Paradoxical stimulatory effect of the kinase inhibitor chelerythrine on the phosphorylation of a ~ 20 K M_r protein present in the mitochondrial fraction of rat retina (673) 194
Londei, T., Mistò, R., Vismara, C. and Leone, V.G.
Congenital brain damage spares the basic patterns of parental behavior in affected mice (677) 61
Longo, L.D., see Packianathan, S. (688) 61
Lookingland, K.J., see Wagner, C.K. (677) 229
LoPachin, Jr., R.M., see Lehning, E.J. (694) 158
Lopes da Silva, F.H., see Kamphuis, W. (702) 94
López-Costa, J.J., see Mallo, G. (693) 196
López-Rodríguez, F., Kohlmeier, K.A., Yamuy, J., Morales, F.R. and Chase, M.H.
Muscle atonia can be induced by carbachol injections into the nucleus pontis oralis in cats anesthetized with α-chloralose (699) 201
Lorden, J.F., see LeDoux, M.S. (697) 91
Lorenzo, D., see Sierra, F. (683) 215
Lorenzon, P., Mozrzymas, J.W., Eusebi, F. and Ruzzier, F.
Forskolin reduces the activity of the rat muscle embryonic type acetylcholine receptor channel (703) 100
Löscher, W., Rohlfs, A. and Rundfeldt, C.
Reduction in firing rate of substantia nigra pars reticulata neurons by valproate: influence of different types of anesthesia in rats (702) 133
Löscher, W., Wahnschaffe, U., Hönack, D. and Rundfeldt, C.
Does prolonged implantation of depth electrodes predispose the brain to kindling? (697) 197
Löscher, W., see Ebert, U. (671) 338
Lossinsky, A.S., see Kida, E. (674) 341
Lothman, E.W., see Bonthius, D.J. (674) 314
Louis, W.J., see King, P.R. (675) 264
Love, A., Cotter, M.A. and Cameron, N.E.
Impaired myelinated fiber regeneration following freeze-injury in rats with streptozotocin-induced diabetes: involvement of the polyol pathway (703) 105
Lovisetto, C., see Bertolotto, A. (673) 344
Low, P.A., see Benarroch, E.E. (684) 215
Low, W.C., see Pundt, L.L. (695) 25
Lowenstein, P.R., Shering, A.F., MacDougall, L.K. and Cohen, P.
Immunolocalisation of protein phosphatase inhibitor-1 in the cerebral cortex of the rat, cat and ferret (676) 80
Lowry, L.D., see Rawson, N.E. (681) 58
Lowy, M.T., see Novotney, S. (684) 19
Lu, J., Kaur, C. and Ling, E.-A.
Histochemical demonstration of nitric oxide synthase-like immunoreactivity in epiplexus cells and choroid epithelia in the lateral ventricles of postnatal rat brain induced by an intracerebral injection of lipopolysaccharide (699) 275
Lu, J., see Mao, J. (677) 257
Lu, P., Sturman, J.A. and Bolton, D.C.
Altered GABA distribution in hamster brain is an early molecular consequence of infection by scrapie prions (681) 235

Lu, X., Wei, H.M., Yospin, J. and Weiss, H.R.
Effect of nitroprusside on regional cerebral cyclic GMP, blood flow and O_2 consumption in rat (669) 35
Luabeya, M.-K., see Maloteaux, J.-M. (687) 155
Lubischer, J.L. and Arnold, A.P.
Axotomy transiently down-regulates androgen receptors in motoneurons of the spinal nucleus of the bulbocavernosus (694) 61
Lucas, J.H., see Emery, D.G. (692) 161
Lucas, J.J., see Cho, S.S. (674) 15
Lucas, R.L. and Salm, A.K.
Astroglia proliferate in response to oxytocin and vasopressin (681) 218
Lucassen, P.J., Hofman, M.A. and Swaab, D.F.
Increased light intensity prevents the age related loss of vasopressin-expressing neurons in the rat suprachiasmatic nucleus (693) 261
Lücke, A., Köhling, R., Straub, H., Moskopp, D., Wassmann, H. and Speckmann, E.-J.
Changes of extracellular calcium concentration induced by application of excitatory amino acids in the human neocortex in vitro (671) 222
Lucki, I., see Kirby, L.G. (682) 189
Luckman, S.M.
Fos expression within regions of the preoptic area, hypothalamus and brainstem during pregnancy and parturition (669) 115
Ludlam, W.H., Chandross, K.J. and Kessler, J.A.
LIF-and IL-1β-mediated increases in substance P receptor mRNA in axotomized, explanted or dissociated sympathetic ganglia (685) 12
Ludwig, C.P., see Flaris, N.A. (678) 99
Lugo, N. and Kicliter, E.
Do retinal ganglion cells project bilaterally in ground squirrels? (673) 161
Luine, V.N., see Frankfurt, M. (696) 1
Luiten, P.G.M., see Harkany, T. (695) 71
Luiten, P.G.M., see Harkany, T. (698) 270
Luiten, P.G.M., see Van der Zee, E.A. (676) 41
Lumeng, L., see Hwang, B.H. (690) 249
Lundberg, J.M., see Szallasi, A. (703) 175
Lundborg, G., see Danielsen, N. (681) 105
Lundeberg, T., see Bileviciute, I. (704) 71
Lundeberg, T., see Yu, L.-C. (698) 23
Lundy Jr., R.F. and Contreras, R.J.
Tongue adaptation temperature influences lingual nerve responses to thermal and menthol stimulation (676) 169
Luo, Y., Peng, N., Yang, W. and Zhang, W.
Studies on the distribution of vasopressin-immunoreactive neuronal perikarya and their fibers in the hypothalamus of *Tupaia belangeri* (687) 191
Luo, Y.Q., Hirashima, N., Li, Y.H., Alkon, D.L., Sunderland, T., Etcheberrigaray, R. and Wolozin, B.
Physiological levels of β-amyloid increase tyrosine phosphorylation and cytosolic calcium (681) 65
Luppi, P.-H., see Datiche, F. (671) 27
Lust, W.D., see LaManna, J.C. (687) 175
Luu-The, V., see Pelletier, G. (704) 233
Luy, M., see Grüsser-Cornehls, U. (703) 51
Lyeth, B.G., see Gong, Q.-Z. (700) 299
Lyman, W.D., see Larocca, J.N. (701) 135
Lynch, A.M., see See, R.E. (704) 202
Lynch, G., see Arai, A. (704) 298
Lynch, G., see Bednarski, E. (694) 147
Lynott, J., see Masukawa, L.M. (678) 65

M

Ma, C.-P., see Cheng, C.-L. (678) 40
Ma, W. and Ribeiro-da-Silva, A.
Substance P- and GABA-like immunoreactivities are co-localized in axonal varicosities in the superficial laminae of cat but not rat spinal cord (692) 99
Ma, X.-L., see Phelps, C.P. (688) 193
Ma, Y., see Clark, M.B. (700) 308
Macadar, O., see Sierra, F. (683) 215
Maccari, S., see Haney, M. (698) 46
MacDonald, K.D. and Barth, D.S.
High frequency (gamma-band) oscillating potentials in rat somatosensory and auditory cortex (694) 1
MacDougall, L.K., see Lowenstein, P.R. (676) 80
MacFarlane, I.A., see Frankish, H.M. (694) 139
MacGregor, D.P., Murone, C., Song, K., Allen, A.M., Paxinos, G. and Mendelsohn, F.A.O.
Angiotensin II receptor subtypes in the human central nervous system (675) 231
Machado, A., see Venero, J.L. (672) 153
Maciejewski, D., see Behan, D.P. (698) 259
Mack, A.F., see Chiu, J.F. (673) 119
Mack, C.M., Boehm, G.W., Berrebi, A.S. and Denenberg, V.H.
Sex differences in the distribution of axon types within the genu of the rat corpus callosum (697) 152
MacKay, W.A. and Mendonça, A.J.
Field potential oscillatory bursts in parietal cortex before and during reach (704) 167
MacKenzie, L., see Gieroba, Z.J. (683) 43
Mackenzie, L., see Willoughby, J.O. (683) 73
MacLusky, N.J., see Kühnemann, S. (691) 229
MacManus, J.P., see Hill, I.E. (676) 398
Madamba, S.G., Hsu, M., Schweitzer, P. and Siggins, G.R.
Ethanol enhances muscarinic cholinergic neurotransmission in rat hippocampus in vitro (685) 21
Maddux, B.N., see Lee, R.-S. (687) 1
Maddux, B.N., see Lee, R.-S. (687) 12
Madoka, M., see Sekiguchi, M. (696) 262
Maeda, M., see Ono, J. (671) 141
Maffei, L., see Ugolini, G. (704) 121
Mafune, N., see Tsuzuki, K. (699) 260
Maggio, R., Fumagalli, F., Donati, E., Barbier, P., Racagni, G., Corsini, G.U. and Riva, M.
Inhibition of nitric oxide synthase dramatically potentiates seizures induced by kainic acid and pilocarpine in rats (679) 184
Maggio, R., see Vaglini, F. (674) 127
Magherini, P.C., see Bardoni, R. (703) 19
Magnan, J., see Giraud, A.L. (705) 15
Maher, P.A., see Gonzalez, A.M. (701) 201
Mahmood, R.H., see Shuaib, A. (702) 199
Maier, S.F. and Watkins, L.R.
Intracerebroventricular interleukin-1 receptor antagonist blocks the enhancement of fear conditioning and interference with escape produced by inescapable shock (695) 279
Maier, S.F., see Watkins, L.R. (692) 244
Maines, M.D., see Ewing, J.F. (672) 29
Maisonneuve, I.M., see Glick, S.D. (681) 147
Makman, M.H., see Dobrenis, K. (686) 239
Malaval, L., see Mendis, D.B. (676) 69
Malcangio, M., see Castro-Lopes, J.M. (679) 289
Maley, B.E., see Watson, Jr., R.E. (689) 254
Mallo, G., Goldstein, J., López-Costa, J.J. and Pecci Saavedra, J.
Expression of c-*fos* and c-*jun* in rat retina following protracted illumination (693) 196
Maloteaux, J.-M., Luabeya, M.-K., Vanisberg, M.-A., Jeanjean, A.P., Baudhuin, P., Scherman, D. and Laduron, P.M.
Subcellular distribution of receptor sites in human brain: Differentiation between heavy and light structures of high and low density (687) 155
Malouf, A.T., see Newell, D.W. (675) 38
Malouf, A.T., see Ricciardi, T.N. (680) 80
Malpaux, B., see Curlewis, J.D. (697) 48
Maisbury, C.W., see Kerchner, M. (672) 251
Malva, J.O., Ambrósio, A.F., Carvalho, A.P., Duarte, C.B. and Carvalho, C.M.
Involvement of class A calcium channels in the KCl induced Ca^{2+} influx in hippocampal synaptosomes (696) 242
Malva, J.O., see Carvalho, C.M. (669) 234
Mamiya, G., see Watanabe, M. (670) 173
Manabe, Y., see Saito, T. (697) 276
Mandal, A.K., see Gatti, P.J. (693) 80
Maness, L.M., Banks, W.A., Zadina, J.E. and Kastin, A.J.
Selective transport of blood-borne interleukin-1α into the posterior division of the septum of the mouse brain (700) 83
Maneuf, Y.P., Mitchell, I.J., Crossman, A.R., Woodruff, G.N. and Brotchie, J.M.
Functional implications of kappa opioid receptor-mediated modulation of glutamate transmission in the output regions of the basal ganglia in rodent and primate models of Parkinson's disease (683) 102
Manley, M.S., see Mura, A. (704) 51
Mann, J.J., see Arango, V. (688) 121
Mann, J.J., see Fontenot, M.B. (705) 105
Manning, A.M., see Zhang, R.-L. (682) 182
Mansour, A., Hoversten, M.T., Taylor, L.P., Watson, S.J. and Akil, H.
The cloned μ, δ and κ receptors and their endogenous ligands: Evidence for two opioid peptide recognition cores (700) 89

Mantione, J.R., Kleppner, S.R., Miyazono, M., Wertkin, A.M., Lee, V.M.-Y. and Trojanowski, J.Q.
Human neurons that constitutively secrete Aβ do not induce Alzheimer's disease pathology following transplantation and long-term survival in the rodent brain (671) 333
Mantyh, P., see Cleary, J. (682) 69
Mantyh, P.W., see Takatsuji, K. (698) 53
Mantz, J., see Lecharny, J.-B. (670) 308
Manuck, S.B., see Fontenot, M.B. (705) 105
Manzardo, E., see Bertolotto, A. (673) 344
Mao, J., Price, D.D., Phillips, L.L., Lu, J. and Mayer, D.J.
Increases in protein kinase C gamma immunoreactivity in the spinal cord of rats associated with tolerance to the analgesic effects of morphine (677) 257
Mapp, P.I., see Kidd, B.L. (688) 72
Marcaida, G., Miñana, M.-D., Grisolía, S. and Felipo, V.
Lack of correlation between glutamate-induced depletion of ATP and neuronal death in primary cultures of cerebellum (695) 146
Marcelino, J., see Korytko, A.I. (685) 135
Marek, P., see Oliff, H.S. (675) 20
Marek, P., see Oliff, H.S. (699) 329
Margolis, R.L., see Gao, X.-M. (703) 63
Marguerat, A., see Arsenijevic, Y. (698) 275
Marini, G. and Tredici, G.
Parafascicular nucleus-raphe projections and termination patterns in the rat (690) 177
Mark, G.P., Weinberg, J.B., Rada, P.V. and Hoebel, B.G.
Extracellular acetylcholine is increased in the nucleus accumbens following the presentation of an aversively conditioned taste stimulus (688) 184
Marković, B.M., see Laban, O. (676) 133
Markowski, V.P. and Hull, E.M.
Cholecystokinin modulates mesolimbic dopaminergic influences on male rat copulatory behavior (699) 266
Marley, R.J., see Shimosato, K. (684) 243
Marquez, J., see Thibaut, F. (692) 233
Marrosu, F., Portas, C., Mascia, M.S., Casu, M.A., Fà, M., Giagheddu, M., Imperato, A. and Gessa, G.L.
Microdialysis measurement of cortical and hippocampal acetylcholine release during sleep–wake cycle in freely moving cats (671) 329
Marsal, J., see Herreros, J. (699) 165
Marsden, C.A., see Saulskaya, N. (698) 114
Marshall, I.G., see Pemberton, K.E. (671) 267
Marshall, J.F., see Ruskin, D.N. (703) 156
Martel, J.C., see Calon, F. (680) 43
Martens, D.J., see Miklyaeva, E.I. (681) 23
Martin, D., Miller, G., Rosendahl, M. and Russell, D.A.
Potent inhibitory effects of glial derived neurotrophic factor against kainic acid mediated seizures in the rat (683) 172
Martín-Espinosa, Á., see Boyano-Adánez, M.C. (688) 1
Martin, G., see Janis, L.S. (679) 99
Martinez, A., see De Gortari, P. (679) 144
Martinez, J.M., see Iribar, C. (687) 211
Martínez, M., Hernanz, A., Ferrándiz, M.L., De Juan, E., Sevila, I., Martínez, N. and Miquel, J.
Glucose deprivation increases aspartic acid release from synaptosomes of aged mice (673) 149
Martínez, N., see Martínez, M. (673) 149
Martinez, R.P., see Raffa, R.B. (677) 277
Martzen, M.R., see DiLoreto Jr., D.A. (698) 1
Maruyama, Y., see Ishimaru, H. (673) 112
Mas, M., Fumero, B., Fernandez-Vera, J.R. and Gonzalez-Mora, J.L.
Neurochemical correlates of sexual exhaustion and recovery as assessed by in vivo microdialysis (675) 13
Mascia, M.S., see Marrosu, F. (671) 329
Masliah, E., see Burgos, I. (692) 154
Masmoudi, K., see Wallois, F. (687) 143
Mason, G.A., see Caldwell, J.D. (693) 225
Mason, P., see Leung, C.G. (699) 71
Massari, V.J., Johnson, T.A. and Gatti, P.J.
Cardiotopic organization of the nucleus ambiguus? An anatomical and physiological analysis of neurons regulating atrioventricular conduction (679) 227
Massari, V.J., see Gatti, P.J. (693) 133
Massicotte, G., see Bernard, J. (671) 195
Massotte, L., see Seutin, V. (683) 275
Mastrangeli, A., see Kuo, H. (705) 31
Masuda, K., see Yoshiura, T. (703) 139
Masuda, Y., see Matsuo, R. (689) 289
Masukawa, L.M., O'Connor, W.M., Lynott, J., Burdette, L.J., Uruno, K., McGonigle, P. and O'Connor, M.J.
Longitudinal variation in cell density and mossy fiber reorganization in the dentate gyrus from temporal lobe epileptic patients (678) 65
Masukawa, L.M., see Burdette, L.J. (680) 63
Masukawa, L.M., see Uruno, K. (695) 163
Masuko, S., see Kawano, H. (689) 136
Masuo, Y., Noguchi, J., Morita, S. and Matsumoto, Y.
Effects of intracerebroventricular administration of pituitary adenylate cyclase-activating polypeptide (PACAP) on the motor activity and reserpine-induced hypothermia in murines (700) 219
Masuo, Y., see Nicot, A. (702) 279
Mathé, A.A., see Stenfors, C. (698) 39
Matos, F.F., Rollema, H., Taiwo, Y.O., Levine, J.D. and Basbaum, A.I.
Relationship between analgesia and extracellular morphine in brain and spinal cord in awake rats (693) 187
Matsuda, H., Akechi, Y., Shimada, Y., Terasawa, K. and Watanabe, H.
Relationship of the ipsilateral rotation in night period and striatal dopamine content reduction in unilateral nigrostriatal 6-OHDA lesioned rats (686) 111
Matsuda, H., see Ohki, K. (696) 140
Matsukawa, N., see Ojika, K. (701) 19
Matsumoto, G., Hisamitsu, T. and De Groat, W.C.
Non-NMDA glutamatergic excitatory transmission in the descending limb of the spinobulbospinal micturition reflex pathway of the rat (693) 246
Matsumoto, K., see Ni, J.-W. (673) 290
Matsumoto, K., see Ojima, K. (684) 87
Matsumoto, R.R., see Kanthasamy, A.G. (705) 97
Matsumoto, Y., see Masuo, Y. (700) 219
Matsumoto, Y., see Ueda, S. (673) 325
Matsumura, K., see Cao, C. (697) 187
Matsuno, K., Senda, T., Kobayashi, T. and Mita, S.
Involvement of σ_1 receptor in (+)-*N*-allylnormetazocine-stimulated hippocampal cholinergic functions in rats (690) 200
Matsuo, A., see Tooyama, I. (691) 235
Matsuo, M., Hamasaki, Y., Fujiyama, F. and Miyazaki, S.
Eicosanoids are produced by microglia, not by astrocytes, in rat glial cell cultures (685) 201
Matsuo, R., Inoue, T., Masuda, Y., Nakamura, O., Yamauchi, Y. and Morimoto, T.
Neural activity of chorda tympani mechanosensitive fibers during licking behavior in rats (689) 289
Matsuoka, K., see Tojo, H. (669) 163
Matsuura, S., see Gotani, H. (689) 281
Mattson, M.P. and Goodman, Y.
Different amyloidogenic peptides share a similar mechanism of neurotoxicity involving reactive oxygen species and calcium (676) 219
Mattson, M.P., see Barger, S.W. (677) 167
Mattson, M.P., see Furukawa, K. (689) 141
Maxwell, D.J., Ottersen, O.P. and Storm-Mathisen, J.
Synaptic organization of excitatory and inhibitory boutons associated with spinal neurons which project through the dorsal columns of the cat (676) 103
Maxwell, D.J., Todd, A.J. and Kerr, R.
Colocalization of glycine and GABA in synapses on spinomedullary neurons (690) 127
Mayer, A., see Gancher, S. (682) 63
Mayer, D.J., see Mao, J. (677) 257
Mayer, J.H., Steffensen, S.C. and Henriksen, S.J.
Site-selective acute desensitization following local administration of opioid in the hippocampus (686) 134
Mayeux, V. and Valmier, J.
Skeletal muscle contraction modulates carbonic anhydrase phenotype in adult mouse dorsal root ganglion neurons (694) 191
Mayfield, K.P., Horvath, R., Lai, J. and Porreca, F.
Increased expression of opioid delta receptors by deoxy conformation heme proteins in NG108-15 cells (676) 358
Mayhan, W.G. and Didion, S.P.
Activation of protein kinase C does not participate in disruption of the blood–brain barrier to albumin during acute hypertension (696) 106

Mayhan, W.G.
Role of nitric oxide in disruption of the blood–brain barrier during acute hypertension (686) 99
Maynard-Salgado, G. and García-Arrarás, J.E.
Depolarization effects on the peptidergic phenotypes of chick sympathetic and adrenal cells (676) 268
Mazur-Kolecka, B., Frackowiak, J. and Wiśniewski, H.M.
Apolipoproteins E3 and E4 induce, and transthyretin prevents accumulation of the Alzheimer's β-amyloid peptide in cultured vascular smooth muscle cells. (698) 217
Mazur-Kolecka, B., see Frackowiak, J. (676) 225
Mazziotta, J.C., see Schneider, J.S. (672) 112
McArdle, J.J., see Brightman, T. (678) 110
McCabe, P.M., see Green, E.J. (702) 145
McCabe, P.M., see McEchron, M.D. (682) 157
McCabe, P.M., see Pazos, A.J. (689) 224
McCall, A.L., Moholt-Siebert, M., VanBueren, A., Cherry, N.J., Lessov, N., Tiffany, N., Thompson, M., Downes, H. and Woodward, W.R.
Progressive hippocampal loss of immunoreactive GLUT3, the neuron-specific glucose transporter, after global forebrain ischemia in the rat (670) 29
McCall, R.B., see Clement, M.E. (696) 258
McCarron, R.M., see Spatz, M. (684) 99
McCarthy, P.W., Prabhakar, E. and Lawson, S.N.
Evidence to support the peripheral branching of primary afferent C-fibres in the rat: an in vitro intracellular electrophysiological study (704) 79
McCarty, R., see Pacak, K. (688) 242
McCown, T.J., Duncan, G.E., Johnson, K.B. and Breese, G.R.
Metabolic and functional mapping of the neural network subserving inferior colliculus seizure generalization (701) 117
McCulloch, J., see Patel, T.R. (686) 254
McDermott, J.L., Liu, B. and Dluzen, D.E.
Tamoxifen treatment of ovariectomized mice alters dopamine release from striatal tissue fragments superfused in vitro (698) 248
McDonald, T.J., Li, C. and Wasserman, R.H.
Distribution of calbindin-D_{28K} in the brain of the fetal sheep in late gestation (675) 303
McEchron, M.D., McCabe, P.M., Green, E.J., Llabre, M.M. and Schneiderman, N.
Simultaneous single unit recording in the medial nucleus of the medial geniculate nucleus and amygdaloid central nucleus throughout habituation, acquisition, and extinction of the rabbit's classically conditioned heart rate (682) 157
McEwen, B.S., see Flanagan-Cato, L.M. (673) 53
McEwen, B.S., see Frankfurt, M. (696) 1
McEwen, B.S., see Kow, L.-M. (694) 29
McEwen, B.S., see Watanabe, Y. (680) 217
McEwen, M., see Fix, A.S. (696) 194
McGaugh, J.L., see Coleman-Mesches, K. (670) 75
McGaugh, J.L., see Coleman-Mesches, K. (676) 183
McGaugh, J.L., see Parent, M.B. (676) 235
McGeer, E.G., see Walker, D.G. (675) 75
McGeer, P.L., see Tooyama, I. (691) 235
McGeer, P.L., see Walker, D.G. (675) 75
McGinty, D., see Alam, Md.N. (696) 221
McGinty, J.F., see Wang, J.Q. (673) 262
McGonigle, P., see Masukawa, L.M. (678) 65
McGowan, J.E., Haynes-Laing, A.G., Mishra, O.P. and Delivoria-Papadopoulos, M.
The effect of acute hypoglycemia on the cerebral NMDA receptor in newborn piglets (670) 283
McIlroy, W.E., see Brooke, J.D. (679) 255
McIntosh, A.R. and Gonzalez-Lima, F.
Functional network interactions between parallel auditory pathways during Pavlovian conditioned inhibition (683) 228
McIntosh, A.R., see Acevedo, L.D. (701) 89
McIntosh, T.K., see Hicks, R.R. (678) 151
McIntyre Burnham, W., Cottrell, G.A., Diosy, D. and Racine, R.J.
Long-term changes in entorhinal-dentate evoked potentials induced by electroconvulsive shock seizures in rats (698) 180
McKinley, M.J., see Moeller, I. (701) 301
McKittrick, C.R., see Frankfurt, M. (696) 1
McLarnon, J.G., Sawyer, D. and Kim, S.U.
Cation and anion unitary ion channel currents in cultured bovine microglia (693) 8
McLarnon, J.G., see Sawyer, D.C. (698) 30
McLaughlin, P.J., see Zagon, I.S. (671) 105
McLaurin, J.A., see Prabhakar, S. (672) 159
McMahon, K., see Givens, B. (688) 27
McMillian, M.K., see Bronstein, D.M. (704) 112
McNiven, M.A., see Russell, J.W. (676) 258
McPherson, D.W., see Gitler, M.S. (687) 71
McPherson, D.W., see Gitler, M.S. (704) 151
McRae, A., see Blomgren, K. (684) 136
Meana, J.J., see Gabilondo, A.M. (682) 245
Meaney, M.J., see O'Donnell, D. (687) 133
Medema, R.M., see Krugers, H.J. (696) 89
Medina, J.H., see Bernabeu, R. (685) 163
Medvedev, A., see Willoughby, J.O. (683) 73
Meek, J., see Mulders, W.H.A.M. (689) 47
Meek, J., see Mulders, W.H.A.M. (689) 61
Megow, D., see Schreiber, S.J. (703) 227
Mehta, A.K. and Shank, R.P.
Characterization of a benzodiazepine receptor site with exceptionally high affinity for Ro 15-4513 in the rat CNS (704) 289
Meiners, S., see Fok-Seang, J. (689) 207
Meinzen-Derr, J., see LeDoux, M.S. (697) 91
Mejia, W.R., see Quirk, G.J. (670) 277
Mellergård, P., see OuYang, Y.-B. (676) 307
Meltzer, H.Y., see Ichikawa, J. (698) 204
Meltzer, H.Y., see Sumiyoshi, T. (681) 109
Memezawa, H., Zhao, Q., Smith, M.-L. and Siesjö, B.K.
Hyperthermia nullifies the ameliorating effect of dizocilpine maleate (MK-801) in focal cerebral ischemia (670) 48
Mena, M.A., see Pardo, B. (682) 133
Menani, J.V., Beltz, T.G. and Johnson, A.K.
Effects of lidocaine injections into the lateral parabrachial nucleus on dipsogenic and pressor responses to central angiotensin II in rats (695) 250
Menard, C.S., Hebert, T.J., Dohanich, G.P. and Harlan, R.E.
Androgenic-anabolic steroids modify β-endorphin immunoreactivity in the rat brain (669) 255
Menard, J.F., see Thibaut, F. (692) 233
Mendelsohn, F.A.O., see Jenkins, T.A. (691) 213
Mendelsohn, F.A.O., see MacGregor, D.P. (675) 231
Mendelsohn, F.A.O., see Moeller, I. (701) 301
Mendis, D.B., Malaval, L. and Brown, I.R.
SPARC, an extracellular matrix glycoprotein containing the follistatin module, is expressed by astrocytes in synaptic enriched regions of the adult brain (676) 69
Mendonça, A.J., see MacKay, W.A. (704) 167
Meneses, S., see Brailowsky, S. (702) 126
Meng, F., see Prickaerts, J. (674) 142
Mentis, G., see Hay, C. (704) 145
Menu, J.P., see Piérard, C. (693) 251
Menzies, R.A., see Phelps, C.P. (688) 193
Merahi, N. and Laguzzi, R.
Cardiovascular effects of $5HT_2$ and $5HT_3$ receptor stimulation in the nucleus tractus solitarius of spontaneously hypertensive rats (669) 130
Merchant, K.M., see Decker, K.P. (691) 9
Merchant-Nancy, H., Vázquez, J., García, F. and Drucker-Colín, R.
Brain distribution of c-*fos* expression as a result of prolonged rapid eye movement (REM) sleep period duration (681) 15
Mercier, A.J., see Noronha, K.F. (673) 70
Merico, A., see Freo, U. (677) 213
Merten, M.D.P. and Stocker-Buschina, S.
Fadrozole induces delayed effects on neurons in the zebra finch song system (671) 317
Messam, C.A., Greene, J.G., Greenamyre, J.T. and Robinson, M.B.
Intrastriatal injections of the succinate dehydrogenase inhibitor, malonate, cause a rise in extracellular amino acids that is blocked by MK-801 (684) 221
Messer, Jr., W.S., see Periyasamy, S. (693) 118
Messier, C., see Micheau, J. (685) 99
Mestek, A., see Liang, Y. (679) 82
Mestre, C., see Ardid, D. (695) 253
Metherate, R. and Ashe, J.H.
GABAergic suppression prevents the appearance and subsequent fatigue of an NMDA receptor-mediated potential in neocortex (699) 221
Mettenleiter, T.C., see Sams, J.M. (687) 182
Meyer, D.L., see Rickmann, M. (688) 8
Meyer, J.H., see Randall, R.D. (701) 238
Meyer, J.J., see Pettigrew, L.C. (691) 243
Mialon, P., Joanny, P., Gibey, R., Cann-Moisan, C., Caroff, J., Steinberg, J. and Barthélémy, L.
Amino acids and ammonia in the cerebral cortex, the corpus striatum and the brain stem of the mouse prior to the onset and after a seizure induced by hyperbaric oxygen (676) 352

Micevych, P.E., see Babcock, A.M. (705) 307
Michael, M., see Milgram, N.W. (670) 112
Micheau, J., Messier, C. and Jaffard, R.
Glucose enhancement of scopolamine-induced increase of hippocampal high-affinity choline uptake in mice: relation to plasma glucose levels (685) 99
Micheau, J., see Béracochéa, D.J. (670) 53
Michel, A.M., see Weber, E.T. (692) 137
Middlemiss, P.J., Gysbers, J.W. and Rathbone, M.P.
Extracellular guanosine and guanosine-5'-triphosphate increase: NGF synthesis and release from cultured mouse neopallial astrocytes (677) 152
Miettinen, R., see Halonen, T. (693) 217
Mike, A., see Kiss, J.P. (674) 238
Miki, N., see Gemba, H. (697) 143
Miki, T., see Hisano, S. (676) 409
Mikkelsen, J.D., see Janik, D. (698) 137
Mikkelsen, J.D., see Vrang, N. (684) 61
Miklyaeva, E.I., Martens, D.J. and Whishaw, I.Q.
Impairments and compensatory adjustments in spontaneous movement after unilateral dopamine depletion in rats (681) 23
Milgram, N.W., Michael, M., Cammisuli, S., Head, E., Ferbinteanu, J., Reid, C., Murphy, M.P. and Racine, R.
Development of spontaneous seizures over extended electrical kindling. II. Persistence of dentate inhibitory suppression (670) 112
Milgram, N.W., see Racine, R.J. (702) 77
Milgram, N.W., see Racine, R.J. (702) 87
Miliaressis, E., see Anderson, R. (688) 15
Millar, J., see Gilbert, D.B. (681) 1
Miller, A.D., see Yates, B.J. (689) 197
Miller, G., see Martin, D. (683) 172
Miller, J., see Iyer, V.G. (689) 159
Miller, J.P., see Fix, A.S. (696) 194
Miller, J.W., see Torack, R.M. (669) 135
Miller, L.G., see Fahey, J.M. (669) 183
Miller, M.L., Andringa, A., Evans, J.E. and Hastings, L.
Microvillar cells of the olfactory epithelium: morphology and regeneration following exposure to toxic compounds (669) 1
Miller, R.F., see Yu, W. (692) 190
Milne, B., see Wang, L. (697) 130
Milner, T.A., Kurucz, O.S., Veznedaroglu, E. and Pierce, J.P.
Septohippocampal neurons in the rat septal complex have substantial glial coverage and receive direct contacts from noradrenaline terminals (670) 121
Milner, T.A., see Aicher, S.A. (693) 51
Milway, J.S., see Harley, C.W. (685) 217
Minami, S., see Okada, K. (699) 33
Minami, T., see Nishihara, I. (677) 138
Miñana, M.-D., see Marcaida, G. (695) 146
Minciacchi, D., see Santarelli, M. (698) 241
Miquel, J., see Martínez, M. (673) 149
Miralles, F.X., see Herreros, J. (699) 165
Misawa, M., see Suzuki, T. (675) 195
Miserendino, M.J.D. and Nestler, E.J.
Behavioral sensitization to cocaine: modulation by the cyclic AMP system in the nucleus accumbens (674) 299
Mishkin, M., see Golski, S. (676) 53
Mishra, O.P., see McGowan, J.E. (670) 283
Mishra, R.K., see Savelli, J.E. (682) 41
Misiaszek, J.E., Brooke, J.D., Lafferty, K.B., Cheng, J. and Staines, W.R.
Long-lasting inhibition of the human soleus H reflex pathway after passive movement (677) 69
Misiaszek, J.E., Cheng, J. and Brooke, J.D.
Movement-induced depression of soleus H reflexes is consistent in humans over the range of excitatory afferents involved (702) 271
Misiaszek, J.E., see Brooke, J.D. (679) 255
Misiaszek, J.E., see Cheng, J. (672) 89
Misiaszek, J.E., see Cheng, J. (681) 197
Misler, S., see Lippmann, B.J. (686) 29
Mistò, R., see Londei, T. (677) 61
Misu, Y., see Ueda, H. (698) 213
Misumi, Y., see Shibata, K. (692) 71
Mita, S., see Matsuno, K. (690) 200
Mitake, S., see Ojika, K. (701) 19
Mitchell, I.J., see Maneuf, Y.P. (683) 102
Mitchell, J.H., see Ally, A. (677) 268
Mitre, M.C., see Clark, A.S. (679) 64
Miyamoto, E., see Onodera, H. (684) 95
Miyasaka, A. and Imoto, T.
Electrophysiological characterization of the inhibitory effect of a novel peptide gurmarin on the sweet taste response in rats (676) 63
Miyashita, H., see Shuaib, A. (702) 199
Miyatake, T., see Hozumi, I. (688) 143
Miyawaki, T., Sohma, O., Suzuki, Y. and Takashima, S.
Developmental immunohistochemistry of the 22 kDa peroxisomal membrane protein in the human brain (700) 285
Miyazaki, B., see Oliff, H.S. (699) 329
Miyazaki, S., see Matsuo, M. (685) 201
Miyazono, M., see Mantione, J.R. (671) 333
Miyoshi, Y., Date, I. and Ohmoto, T.
Neovascularization of rat fetal neocortical grafts transplanted into a previously prepared cavity in the cerebral cortex: a three-dimensional morphological study using the scanning electron microscope (681) 131
Mizuguchi, M., Otsuka, N., Sato, M., Ishii, Y., Kon, S.-i., Yamada, M., Nishina, H., Katada, T. and Ikeda, K.
Neuronal localization of CD38 antigen in the human brain (697) 235
Mizuma, H., see Prasad, C. (699) 149
Mizuno, N., see Ding, Y.-Q. (674) 336
Mizuno, Y., Takahashi, K., Totsune, K., Ohneda, M., Konno, H., Murakami, O., Satoh, F., Sone, M., Takase, S., Itoyama, Y. and Mouri, T.
Decrease in cerebellin and corticotropin-releasing hormone in the cerebellum of olivopontocerebellar atrophy and Shy-Drager syndrome (686) 115
Mizusawa, H., see Tamaoka, A. (679) 151
Mizutani, Y., Hirai, K.-I., Wang, G.-Y., Toda, N. and Yamazaki, Y.
Fine localization of low and high calcium dependent ATPase activities in the rat sciatic nerve (693) 95
Mo, Q., see Smith, J.A. (683) 264
Mobley, S.L., see Wenk, G.L. (679) 8
Moeller, I., Chai, S.Y., Oldfield, B.J., McKinley, M.J., Casley, D. and Mendelsohn, F.A.O.
Localization of angiotensin IV binding sites to motor and sensory neurons in the sheep spinal cord and hindbrain (701) 301
Moestrup, S.K., see Tooyama, I. (691) 235
Moffatt, C.A., Ball, G.F. and Nelson, R.J.
The effects of photoperiod on olfactory c-*fos* expression in prairie voles, *Microtus ochrogaster* (677) 82
Mohammed, J.R., Saska, T.A., Chi, J. and Stephens Jr., R.L.
Stimulation of the nucleus raphe obscurus produces marked serotonin release into the dorsal medulla of fed but not fasted rats — glutamatergic dependence (695) 100
MohanKumar, P.S., see ThyagaRajan, S. (689) 122
Moholt-Siebert, M., see McCall, A.L. (670) 29
Mokashi, A., see Lahiri, S. (684) 194
Molgó, J., see Angaut-Petit, D. (681) 213
Molina, P.E., see Hashiguchi, Y. (694) 13
Momoi, T., see Tsukahara, T. (679) 178
Monnet-Tschudi, F., Zurich, M.-G., Pithon, E., Van Melle, G. and Honegger, P.
Microglial responsiveness as a sensitive marker for trimethyltin (TMT) neurotoxicity (690) 8
Monnier, C. and Lalonde, R.
Elevated +-maze and hole-board exploration in lurcher mutant mice (702) 169
Montaron, A., Rouanet, J.L. and Barré, H.
Inhibition of shivering thermogenesis by centrally applied glucagon in muscovy ducklings (702) 49
Monteau, R., see Di Pasquale, E. (695) 271
Montero, V.M. and Jian, S.
Induction of c-*fos* protein by patterned visual stimulation in central visual pathways of the rat (690) 189
Montiel, T., see Brailowsky, S. (702) 126
Moody, C.A., see Bannon, M.J. (695) 19
Mooradian, A.D. and Uko-eninn, A.
Age-related changes in the antioxidative potential of cerebral microvessels (671) 159
Mooradian, A.D.
The antioxidative potential of cerebral microvessels in experimental diabetes mellitus (671) 164
Moore, K.E., see Wagner, C.K. (677) 229
Moore, R.Y., see Gao, B. (700) 142
Moorhead, J.W., see Shinoda, M. (680) 180
Moos, F.C. and Ingram, C.D.
Electrical recordings of magnocellular supraoptic and paraventricular neurons displaying both oxytocin- and vasopressin-related activity (669) 309
Moos, T.
Age-dependent uptake and retrograde axonal transport of exogenous albumin and transferrin in rat motor neurons (672) 14
Morales, F.R., see Engelhardt, J.K. (675) 241
Morales, F.R., see López-Rodríguez, F. (699) 201
Morales, M., see Zhang, C. (683) 59

Moran, S., see Hansen, J.T. (670) 197
Morano, M.I., see Badiani, A. (673) 13
Morano, M.I., see Badiani, A. (678) 269
Moreton, J.E., see Klette, K.L. (704) 31
Morgan, M.K., see Sekhon, L.H.S. (704) 107
Morgane, P.J., see Shultz, P.L. (682) 35
Mori, A., see Hiramatsu, M. (697) 44
Mori, H., see Hara, A. (697) 247
Mori, H., see Tamaoka, A. (679) 151
Mori, M., see Hawkins, R.L. (704) 1
Mori, M., see Ishikawa, K. (677) 20
Mori, M., see Nishimura, F. (691) 217
Mori, N., Kurokouchi, A., Osonoe, K., Saitoh, H., Ariga, K., Suzuki, K. and Iwata, Y.
Liposome-entrapped phenytoin locally suppresses amygdaloid epileptogenic focus created by db-cAMP/EDTA in rats (703) 184
Mori, N., see Tsunoda, K. (691) 18
Mori, T., see Asakuno, K. (702) 23
Morii, H., see Shimada, H. (682) 212
Morimoto, A., see Nakamori, T. (675) 103
Morimoto, K., see Sato, K. (683) 279
Morimoto, T., see Matsuo, R. (689) 289
Morita, S., see Masuo, Y. (700) 219
Morita, T., see Saito, S. (673) 93
Moriwaki, A., see Islam, N. (684) 206
Mormède, P., see Chaouloff, F. (693) 169
Morrell, J.I., see Bakowska, J.C. (703) 191
Morris, M.J., see Pavia, J.M. (690) 108
Morris, R., see Cahusac, P.M.B. (700) 70
Morrison, A.R., see Ross, R.J. (701) 129
Morrison, J.H., see Blümcke, I. (682) 239
Morrison, J.H., see Vickers, J.C. (671) 175
Morrison, J.H., see Vickers, J.C. (680) 23
Morrow, B.A., Taylor, J.R. and Roth, R.H.
R-(+)-HA-966, an antagonist for the glycine/NMDA receptor, prevents locomotor sensitization to repeated cocaine exposures (673) 165
Morton, A.J., see Page, G.K. (697) 157
Morzorati, S.L., see Sanders, S.K. (699) 250
Mosca, S., see Toni, R. (682) 101
Moshé, S.L., see Velíšek, L. (671) 245
Moskopp, D., see Lücke, A. (671) 222
Moss, I.R., see Yan, S. (687) 217
Moss, R.L., see Dudley, C.A. (675) 208
Moss, R.L., see Thompson, T.L. (686) 93
Mossakowski, M.J., see Kida, E. (674) 341
Motaghed-Larijani, Z., see Rashidy-Pour, A. (693) 64
Motekaitis, A.M., Solomon, I.C. and Kaufman, M.P.
Role of the parabrachial nuclei in the airway dilation evoked by the Hering-Breuer reflex (671) 314
Motohashi, N., see Kugaya, A. (682) 151
Motoki, M., see Kajiwara, K. (671) 170
Mott, D.D., see Brucato, F.H. (677) 326
Mouly, A.-M., Elaagouby, A. and Ravel, N.
A study of the effects of noradrenaline in the rat olfactory bulb using evoked field potential response (681) 47
Mouradian, R.D., see Sessler, F.M. (675) 171
Mouri, T., see Mizuno, Y. (686) 115
Moya, F.J., see De Juan, J.A. (690) 25
Moyer, R.W., Firth, B.T. and Kennaway, D.J.
Effect of constant temperatures, darkness and light on the secretion of melatonin by pineal explants and retinas in the gecko *Christinus marmoratus* (675) 345
Mozrzymas, J.W., see Lorenzon, P. (703) 100
Mrini, A., Soucy, J.-P., Lafaille, F., Lemoine, P. and Descarries, L.
Quantification of the serotonin hyperinnervation in adult rat neostriatum after neonatal 6-hydroxydopamine lesion of nigral dopamine neurons (669) 303
Mrosovsky, N., see Janik, D. (698) 137
Mueller, J.L., see Hara, S. (675) 190
Mufson, E.J., see Benzing, W.C. (670) 351
Muir, E., see Fok-Seang, J. (689) 207
Muja, N., see Garraghty, P.E. (686) 119
Mulders, W.H.A.M., Meek, J., Hafmans, T.G.M. and Cools, A.R.
The hypothalamic paraventricular nucleus in two types of Wistar rats with different stress responses. I. Morphometric comparison (689) 47
Mulders, W.H.A.M., Meek, J., Schmidt, E.D., Hafmans, T.G.M. and Cools, A.R.
The hypothalamic paraventricular nucleus in two types of Wistar rats with different stress responses. II. Differential Fos-expression (689) 61
Mullaney, K.J., see Aschner, M. (689) 1
Müller, A.R., see Jurzak, M. (673) 349
Müller, H.W., see Stichel, C.C. (704) 263
Müller, L.J., see Klooster, J. (688) 34
Müller, U. and Krieglstein, J.
Inhibitors of lipid peroxidation protect cultured neurons against cyanide-induced injury (678) 265
Müller, U., see Hildebrandt, H. (679) 281
Müller, W.E., Koch, S., Eckert, A., Hartmann, H. and Scheuer, K.
β-Amyloid peptide decreases membrane fluidity (674) 133
Mullet, M.A., see Williams, F.G. (690) 207
Mullis Sawin, S.B., see Bronstein, D.M. (704) 112
Muñoz-Martínez, E.J., see Cueva-Rolón, R. (679) 267
Munson, P.J., see Haver, E. (681) 75
Muntoni, A.L., see Diana, M. (682) 29
Mura, A., Jackson, D., Manley, M.S., Young, S.J. and Groves, P.M.
Aromatic L-amino acid decarboxylase immunoreactive cells in the rat striatum: a possible site for the conversion of exogenous L-DOPA to dopamine (704) 51
Murabit, M.A., see Shuaib, A. (702) 199
Murakami, K., see Kuroda, M. (677) 348
Murakami, N., Nishi, R., Katayama, T. and Nasu, T.
Inhibitor of protein synthesis phase-shifts the circadian oscillator and inhibits the light induced-phase shift of the melatonin rhythm in pigeon pineal cells (693) 1
Murakami, N., see Akasaka, K. (692) 283
Murakami, N., see Nakamori, T. (675) 103
Murakami, O., see Mizuno, Y. (686) 115
Murakami, Y., see Ni, J.-W. (673) 290
Muramatsu, I., see Takita, M. (681) 190
Muramatsu, K., see Onizuka, K. (697) 179
Muramatsu, M., see Nishimura, Y. (702) 213
Murata, J., see Raley-Susman, K.M. (694) 94
Muratani, H., see Sesoko, S. (671) 38
Murone, C., see MacGregor, D.P. (675) 231
Murphy, E.H., see Wang, X.-H. (689) 32
Murphy, M.P., see Milgram, N.W. (670) 112
Murphy, R.B., see Schuster, D.I. (670) 14
Murray, M.M., see Zochodne, D.W. (698) 130
Murrin, L.C., see Coulter, C.L. (690) 217
Museo, E. and Wise, R.A.
Cytisine-induced behavioral activation: delineation of neuroanatomical locus of action (670) 257
Myers, R.D., see Adell, A. (693) 70

N

Nabors, C.C., see Rieck, R.W. (672) 237
Nadler, V., Biegon, A., Beit-Yannai, E., Adamchik, J. and Shohami, E.
^{45}Ca accumulation in rat brain after closed head injury; attenuation by the novel neuroprotective agent HU-211 (685) 1
Naftolin, F., see Klepper, S. (695) 245
Naftolino, F., see Horvath, T.L. (675) 321
Nagai, R., see Shimada, H. (682) 212
Nagai, T., see Ono, J. (671) 141
Nagao, T., see He, Z. (699) 208
Nagasawa, H., see Kajiwara, K. (671) 170
Nagata, I., see Fukuda, S.-i. (696) 30
Nagata, K. and Narahashi, T.
Differential effects of hexachlorocyclohexane isomers on the GABA receptor–chloride channel complex in rat dorsal root ganglion neurons (704) 85
Nagato, Y., see Sekiguchi, M. (696) 262
Nagatomo, T., see Inenaga, K. (705) 85
Nagatsu, I., see Arai, R. (669) 145
Nagatsu, I., see Arai, R. (673) 339
Nagatsu, T., see Arai, R. (669) 145
Nagy, I., Dray, A. and Urban, L.
Possible branching of myelinated primary afferent fibres in the dorsal root of the rat (703) 223
Nagy, J.I., see Sawchuk, M.A. (683) 153
Najbauer, J. and Leon, M.
Olfactory experience modulates apoptosis in the developing olfactory bulb (674) 245
Nakagawa, H., Ikeda, M., Houtani, T., Ueyama, T., Baba, K., Kondoh, A., Yamamoto, T., Yamashita, T. and Sugimoto, T.
Immunohistochemical evidence for enkephalin and neuropeptide Y in rat inferior colliculus neurons that provide ascending or commissural fibers (690) 236
Nakagawa, H., see Ikeda, M. (690) 225
Nakagawa, Y. and Iwasaki, T.
Involvement of benzodiazepine/GABA-A receptor complex in ethanol-induced state-dependent learning in rats (686) 70
Nakagawa, Y., Ishibashi, Y., Yoshii, T. and Tagashira, E.

Involvement of cholinergic systems in the deficit of place learning in Morris water maze task induced by baclofen in rats (683) 209
Nakagawa, Y., Ishibashi, Y., Yoshii, T. and Tagashira, E.
Muscimol induces state-dependent learning in Morris water maze task in rats (681) 126
Nakago, T., see Ichikawa, H. (679) 205
Nakahara, T., see Hondo, H. (671) 54
Nakai, Y., see Wang, Q.-P. (684) 185
Nakamori, T., Sakata, Y., Watanabe, T., Morimoto, A., Nakamura, S. and Murakami, N.
Suppression of interleukin-1β production in the circumventricular organs in endotoxin-tolerant rabbits (675) 103
Nakamura, F., see Gotani, H. (689) 281
Nakamura, K., see Hondo, H. (671) 54
Nakamura, O., see Matsuo, R. (689) 289
Nakamura, R., see Kwak, S. (702) 61
Nakamura, S., see Nakamori, T. (675) 103
Nakamura, S., see Tomimoto, H. (672) 187
Nakamura, S., see Zhang, Y.-X. (691) 205
Nakamura, Y., see Otake, K. (697) 17
Nakano, K., see Shiroyama, T. (704) 130
Nakata, M., see Tojo, H. (669) 163
Nakazawa, K., see Koizumi, S. (673) 75
Nalepa, I., see Rossby, S.P. (687) 79
Nambu, A., see Tokuno, H. (703) 217
Namgung, U., Valcourt, E. and Routtenberg, A.
Long-term potentiation in vivo in the intact mouse hippocampus (689) 85
Naquet, R., see Fadlallah, N. (675) 55
Narahashi, T., see Nagata, K. (704) 85
Narici, L. and Peresson, M.
Discrimination and study of rhythmical brain activities in the α band: a neuromagnetic frequency responsiveness test (703) 31
Naritomi, H., see Fukuda, S.-i. (696) 30
Narváez, J.A., see Aguirre, J.A. (684) 159
Nashmi, R., see Fehlings, M.G. (677) 291
Nasu, T., see Akasaka, K. (692) 283
Nasu, T., see Murakami, N. (693) 1
Nath, A., Padua, R.A. and Geiger, J.D.
HIV-1 coat protein gp120-induced increases in levels of intrasynaptosomal calcium (678) 200
Nation, J.R., Livermore, C.L. and Bratton, G.R.
Cadmium exposure attenuates the initiation of behavioral sensitization to cocaine (702) 223
Naudin, B., Bonnet, J.-J. and Costentin, J.
Acute L-DOPA pretreatment potentiates 6-hydroxydopamine-induced toxic effects on nigro-striatal dopamine neurons in mice (701) 151
Nava, F., see De Sarro, G. (671) 131
Navarrete, R., see Hay, C. (704) 145
Navarro, X., see Verdú, E. (696) 76
Naveilhan, P., see Jehan, F. (672) 128
Neafsey, E.J., Albores, R., Gearhart, D., Kindel, G., Raikoff, K., Tamayo, F. and Collins, M.A.
Methyl-β-carbolinium analogs of MPP^+ cause nigrostriatal toxicity after substantia nigra injections in rats (675) 279
Neary, J.T., Jorgensen, S.L., Oracion, A.M., Bruce, J.H. and Norenberg, M.D.
Inhibition of growth factor-induced DNA synthesis in astrocytes by ligands of peripheral-type benzodiazepine receptors (675) 27
Neckelmann, D., see Bjørkum, A.A. (692) 251
Negro, A., see San Juan, I. (698) 209
Neill, D.B., see Gong, W. (683) 221
Neisewander, J.L., O'Dell, L.E. and Redmond, J.C.
Localization of dopamine receptor subtypes occupied by intra-accumbens antagonists that reverse cocaine-induced locomotion (671) 201
Nelson, C.S., see Jiang, Z.-G. (687) 125
Nelson, R.J., see Moffatt, C.A. (677) 82
Nemeroff, C.B., see See, R.E. (704) 202
Nemoto, T., Konno, A. and Chiba, T.
Synaptic contact of neuropeptide-and amine-containing axons on parasympathetic preganglionic neurons in the superior salivatory nucleus of the rat (685) 33
Nestler, E.J., see Miserendino, M.J.D. (674) 299
Nestler, E.J., see Sklair-Tavron, L. (702) 117
Netzeband, J.G. and Gruol, D.L.
Modulatory effects of acute ethanol on metabotropic glutamate responses in cultured Purkinje neurons (688) 105
Neubort, S., see Sloviter, R.S. (682) 227
Neufang, B., see Cassel, J.-C. (704) 153
Neuhuber, W., see Kirch, W. (681) 229
Neuner-Jehle, M., Rhyner, T.A. and Borbély, A.A.
Sleep deprivation differentially alters the mRNA and protein levels of neurogranin in rat brain (685) 143
Neveu, I., see Jehan, F. (672) 128
Newell, D.W., Barth, A. and Malouf, A.T.
Glycine site NMDA receptor antagonists provide protection against ischemia-induced neuronal damage in hippocampal slice cultures (675) 38
Nguyen, M.L., see Pemberton, K.E. (671) 267
Nguyen, V., see Johnson, B.A. (699) 192
Ni, J.-W., Matsumoto, K., Li, H.-B., Murakami, Y. and Watanabe, H.
Neuronal damage and decrease of central acetylcholine level following permanent occlusion of bilateral common carotid arteries in rat (673) 290
Nichol, K.A., Schulz, M.W. and Bennett, M.R.
Nitric oxide-mediated death of cultured neonatal retinal ganglion cells: neuroprotective properties of glutamate and chondroitin sulfate proteoglycan (697) 1
Nicol, D.J., Granat, M.H., Baxendale, R.H. and Tuson, S.J.M.
Evidence for a human spinal stepping generator (684) 230
Nicolaïdis, S., see Gerozissis, K. (689) 239
Nicolaïdis, S., see Orosco, M. (671) 149
Nicolaidis, S., see Ruffin, M.-P. (700) 121
Nicot, A., Bidard, J.-N., Kitabgi, P., Lhiaubet, A.-M., Masuo, Y., Palkovits, M., Rostène, W. and Bérod, A.
Neurotensin and neuromedin N brain levels after fornix transection: evidence for an efficient neurotensin precursor processing in subicular neurons (702) 279
Nihei, A., see Ono, J. (671) 141
Nikkhah, G., Eberhard, J., Olsson, M. and Björklund, A.
Preservation of fetal ventral mesencephalic cells by cool storage: in-vitro viability and TH-positive neuron survival after microtransplantation to the striatum (687) 22
Nilsson, M., see Puka-Sundvall, M. (705) 65
Nilsson, S., see Szallasi, A. (703) 175
Ninomiya, M., see Kanemasa, T. (702) 207
Nishi, R., see Murakami, N. (693) 1
Nishihara, F., see Saito, S. (673) 93
Nishihara, I., Minami, T., Uda, R., Ito, S., Hyodo, M. and Hayaishi, O.
Effect of NMDA receptor antagonists on prostaglandin E_2-induced hyperalgesia in conscious mice (677) 138
Nishihara, M., see Nishimura, F. (691) 217
Nishikawa, T., see Kumashiro, S. (681) 117
Nishikawa, T., see Sato, T. (704) 117
Nishikawa, Y., Shibata, S. and Watanabe, S.
Circadian changes in long-term potentiation of rat suprachiasmatic field potentials elicited by optic nerve stimulation in vitro (695) 158
Nishimura, F., Nishihara, M., Mori, M., Torii, K. and Takahashi, M.
Excitability of neurons in the ventromedial nucleus in rat hypothalamic slices: modulation by amino acids at cerebrospinal fluid levels (691) 217
Nishimura, T., Akiyama, H., Yonehara, S., Kondo, H., Ikeda, K., Kato, M., Iseki, E. and Kosaka, K.
Fas antigen expression in brains of patients with Alzheimer-type dementia (695) 137
Nishimura, Y., Muramatsu, M., Asahara, T., Tanaka, T. and Yamamoto, T.
Electrophysiological properties and their modulation by norepinephrine in the ambiguus neurons of the guinea pig (702) 213
Nishina, H., see Mizuguchi, M. (697) 235
Nishino, H., see Onizuka, K. (697) 179
Nishio, C., see Nonomura, T. (683) 129
Nishioka, T., see Takao, T. (688) 219
Nishizaki, T. and Ikeuchi, Y.
Activation of endogenous protein kinase C enhances currents through α1 and α2 glycine receptor channels (687) 214
Nisimura, A., see Ueda, S. (673) 325
Nitschke Dragon, D., see Talman, W.T. (672) 48
Niwa, M., see Iwai, T. (671) 305
Nóbrega, A.C.L., see Ally, A. (677) 268
Noda, H., see Hiramatsu, M. (697) 44
Noel, M.B. and Wise, R.A.
Ventral tegmental injections of a selective μ or δ opioid enhance feeding in food-deprived rats (673) 304
Noel, M.B., see Badiani, A. (670) 264
Noguchi, J., see Masuo, Y. (700) 219
Nolan, J.P., see Wallis, R.A. (685) 225

Nolan, P.M., see Pickard, G.E. (705) 255
Nomura, J., see Shiroyama, T. (704) 130
Nomura, M., see Yamamuro, Y. (684) 1
Nomura, Y., see Itano, Y. (704) 240
Nonomura, T., Nishio, C., Lindsay, R.M. and Hatanaka, H.
Cultured basal forebrain cholinergic neurons from postnatal rats show both overlapping and non-overlapping responses to the neurotrophins (683) 129
Norenberg, M.D., see Itzhak, Y. (705) 345
Norenberg, M.D., see Neary, J.T. (675) 27
Norita, M., see Kato, I. (705) 109
Norlin, M., see Kalra, P.S. (705) 353
Norman, W.P., see Gatti, P.J. (693) 80
Noronha, K.F. and Mercier, A.J.
A role for calcium/calmodulin-dependent protein kinase in mediating synaptic modulation by a neuropeptide (673) 70
Nouri, M., see Burton, M.D. (670) 39
Novak, M., see Ruben, G.C. (675) 1
Novikov, M., see Shohami, E. (674) 55
Novotney, S. and Lowy, M.T.
Short-term and long-term effects of *p*-chloroamphetamine on hippocampal serotonin and corticosteroid receptor levels (684) 19
Nowak, G., Ordway, G.A. and Paul, I.A.
Alterations in the *N*-methyl-D-aspartate (NMDA) receptor complex in the frontal cortex of suicide victims (675) 157
Nowakowski, J., see Wegiel, J. (705) 225
Nowakowski, R.S., see Sekiguchi, M. (696) 262
Nozaki, K., see Fukuda, S.-i. (696) 30
Nozaki, M., see Iwai, T. (671) 305
Nozaki-Taguchi, N., see Yamamoto, T. (704) 256
Nuydens, R., Heers, C., Chadarevian, A., De Jong, M., Nuyens, R., Cornelissen, F. and Geerts, H.
Sodium butyrate induces aberrant tau phosphorylation and programmed cell death in human neuroblastoma cells (688) 86
Nuyens, R., see Nuydens, R. (688) 86
Nylander, I., Vlaskovska, M. and Terenius, L.
Brain dynorphin and enkephalin systems in Fischer and Lewis rats: effects of morphine tolerance and withdrawal (683) 25
Nylander, K.D., see Schor, N.F. (673) 175

O

Obeso, J.A., see Faucheux, B.A. (691) 115
Ochi, M., see Inoue, H. (671) 95
O'Connor, E., Devesa, A., García, C., Puertes, I.R., Pellín, A. and Viña, J.R.
Biosynthesis and maintenance of GSH in primary astrocyte cultures: role of L-cystine and ascorbate (680) 157
O'Connor, M.J., see Masukawa, L.M. (678) 65
O'Connor, M.J., see Uruno, K. (695) 163
O'Connor, W.M., see Masukawa, L.M. (678) 65
O'Connor, W.T., see Stiller, C.-O. (699) 231
Odagaki, Y. and Fuxe, K.
5-HT_{1A}, $GABA_B$, and pirenzepine-insensitive muscarinic receptors are functionally coupled to distinct pools of the same kind of G proteins in rat hippocampus (689) 129
Odaka, A., see Tamaoka, A. (679) 151
O'Dell, L.E., see Neisewander, J.L. (671) 201
O'Dell, T.J., see Thomas, M.J. (695) 45
O'Donnell, D., Francis, D., Weaver, S. and Meaney, M.J.
Effects of adrenalectomy and corticosterone replacement on glucocorticoid receptor levels in rat brain tissue: a comparison between Western blotting and receptor binding assays (687) 133
Offord, S.J., see Shapiro, L.A. (677) 250
Ogata, S.-i., see Tsunoda, K. (691) 18
Ogata, T., see Hiramatsu, M. (697) 44
Ogita, K., see Yoneda, Y. (679) 15
Ogita, K., see Yoneda, Y. (685) 105
Oh, W., see Lee, C. (689) 233
Ohara, S., Beaudet, L.N. and Schmidt, R.E.
Transganglionic response of GAP-43 in the gracile nucleus to sciatic nerve injury in young and aged rats (705) 325
Ohara, S., Tantuwaya, V., DiStefano, P.S. and Schmidt, R.E.
Exogenous NT-3 mitigates the transganglionic neuropeptide Y response to sciatic nerve injury (699) 143
O'Hare, E., see Cleary, J. (682) 69
Ohashi, K., see Ukai, M. (673) 335
Ohashi, T., see Ohki, K. (696) 140
Ohe, Y., see Ishikawa, K. (697) 122
Ohki, K., Yoshida, K., Hagiwara, M., Harada, T., Takamura, M., Ohashi, T., Matsuda, H. and Imaki, J.
Nitric oxide induces c-*fos* gene expression via cyclic AMP response element binding protein (CREB) phosphorylation in rat retinal pigment epithelium (696) 140
Ohman, L.E. and Johnson, A.K.
Role of lateral parabrachial nucleus in the inhibition of water intake produced by right atrial stretch (695) 275
Ohmori, T., see Abekawa, T. (679) 200
Ohmoto, T., see Miyoshi, Y. (681) 131
Ohneda, M., see Mizuno, Y. (686) 115
Ohning, G., see Okumura, T. (674) 137
Ohno, K., see Saji, M. (703) 165
Ohno, M. and Watanabe, S.
Intrahippocampal administration of (+)-SKF 10,047, a σ ligand, reverses MK-801-induced impairment of working memory in rats (684) 237
Ohno, M., Arai, I. and Watanabe, S.
N-Methyl-D-aspartate stimulates dopamine release through nitric oxide formation in the nucleus accumbens of rats (699) 332
Ohno-Shosaku, T. and Yamamoto, C.
Effects of metabotropic glutamate receptor agonists on excitatory and inhibitory transmissions in cultured rat hippocampal neurons (705) 337
Ohshika, H., see Hatta, S. (704) 23
Ohshita, T., see Zhang, Y.-X. (691) 205
Ohta, A., see Umezawa, M. (669) 225
Ohta, Y., see Viana Di Prisco, G. (695) 76
Oikawa, K., see Hiramatsu, M. (697) 44
Ojika, K., Katada, E., Tohdoh, N., Mitake, S., Otsuka, Y., Matsukawa, N. and Tsugu, Y.
Demonstration of deacetylated hippocampal cholinergic neurostimulating peptide and its precursor protein in rat tissues (701) 19
Ojima, H., see Kuroda, M. (677) 348
Ojima, K., Matsumoto, K., Tohda, M. and Watanabe, H.
Hyperactivity of central noradrenergic and CRF systems is involved in social isolation-induced decrease in pentobarbital sleep (684) 87
Oka, K., see Oka, T. (692) 123
Oka, K., see Oka, T. (700) 271
Oka, T., Oka, K., Hosoi, M. and Hori, T.
Intracerebroventricular injection of interleukin-6 induces thermal hyperalgesia in rats (692) 123
Oka, T., Oka, K., Hosoi, M., Aou, S. and Hori, T.
The opposing effects of interleukin-1β microinjected into the preoptic hypothalamus and the ventromedial hypothalamus on nociceptive behavior in rats (700) 271
Okada, K., Suzuki, N., Sugihara, H., Minami, S. and Wakabayashi, I.
Effects of hyper- and hypoglycemia on blood growth hormone level in free-feeding rats with anterolateral deafferentation of the medial basal hypothalamus (699) 33
Okada, M., see Tamura, N. (676) 363
Okada, S., see Ono, J. (671) 141
Okada, S., see Takeda, A. (695) 53
Okada, Y., see Takata, T. (683) 109
Okamura, H., see Yokoyama, C. (681) 153
Okamura, T., see Toda, N. (700) 213
Okazaki, K., see Iino, S. (680) 128
Okoyama, S., see Ikeda, K. (688) 171
Okuma, Y., see Tamura, N. (676) 363
Okumura, F., see Ueda, H. (698) 213
Okumura, J.-i., see Choi, Y.-H. (699) 161
Okumura, T., Taylor, I.L., Fukagawa, K., Tso, P. and Pappas, T.N.
Apolipoprotein A-IV acts centrally in the brain to reduce the severity of gastric ulceration in the rat (673) 153
Okumura, T., Taylor, I.L., Ohning, G., Taché, Y. and Pappas, T.N.
Intracisternal injection of TRH antibody blocks gastric emptying stimulated by 2-deoxy-D-glucose in rats (674) 137
Oldfield, B.J., see Moeller, I. (701) 301
Olds, J.L., see Golski, S. (676) 53
Oliff, H.S., Weber, E., Eilon, G. and Marek, P.
The role of strain/vendor differences on the outcome of focal ischemia induced by intraluminal middle cerebral artery occlusion in the rat (675) 20
Oliff, H.S., Weber, E., Miyazaki, B. and Marek, P.

Infarct volume varies with rat strain and vendor in focal cerebral ischemia induced by transcranial middle cerebral artery occlusion (699) 329
Olive, S., Rougon, G., Pierre, K. and Theodosis, D.T.
Expression of a glycosyl phosphatidylinositol-anchored adhesion molecule, the glycoprotein F3, in the adult rat hypothalamo-neurohypophysial system (689) 271
Oliver, J., see Phelps, C.P. (688) 193
Olivier, B., see Broersen, L.M. (674) 221
Olivier, V., Guibert, B. and Leviel, V.
Direct in vivo comparison of two mechanisms releasing dopamine in the rat striatum (695) 1
Olney, J.W., see Fix, A.S. (696) 194
Olney, J.W., see Stewart, G.R. (695) 81
Olsen, R.W., see Gordey, M. (691) 125
Olsen, R.W., see Lipton, J.W. (676) 378
Olson, J.E. and Kimelberg, H.K.
Hypoosmotic volume regulation and osmolyte transport in astrocytes is blocked by an anion transport inhibitor, L-644,711 (682) 197
Olson, L., see Shinoda, M. (680) 180
Olsson, M., see Nikkhah, G. (687) 22
Olton, D.S., see Golski, S. (676) 53
Onizuka, K., Kunimatsu, M., Ozaki, Y., Muramatsu, K., Sasaki, M. and Nishino, H.
Distribution of μ-calpain proenzyme in the brain and other neural tissues in the rat (697) 179
Ono, J., Harada, K., Takahashi, M., Maeda, M., Ikenaka, K., Sakurai, K., Sakai, N., Kagawa, T., Fritz-Zieroth, B., Nagai, T., Nihei, A., Hashimoto, S. and Okada, S.
Differentiation between dysmyelination and demyelination using magnetic resonance diffusional anisotropy (671) 141
Ono, M., see Akiyama, K. (679) 212
Onodera, H., Yamasaki, Y., Kogure, K. and Miyamoto, E.
Calcium/calmodulin-dependent protein kinase II and protein phosphatase 2B (calcineurin) immunoreactivity in the rat hippocampus long after ischemia (684) 95
Onodera, K., see Suzuki, T. (675) 195
Ontskul, A.H., see Chepkova, A.N. (701) 255
Ookura, T., see Kajiwara, K. (671) 170
Oracion, A.M., see Neary, J.T. (675) 27
Ordway, G.A., see Nowak, G. (675) 157
Ordway, G.A., see Shapiro, L.A. (677) 250
O'Reilly, J.P., Jiang, C. and Haddad, G.G.
Major differences in response to graded hypoxia between hypoglossal and neocortical neurons (683) 179
Orer, H.S., see Barman, S.M. (671) 345
Orezzoli, S.L., see Pazos, A.J. (689) 224
Orikasa, C., Yokosuka, M. and Hayashi, S.
Expression of estrogen receptor in the facial nucleus is suppressed by estradiol, but not by testosterone, indicating a lack of requirement for aromatization (693) 112
Orlacchio, A., see Kristeva-Feige, R. (682) 22
Orlandi, G., see Toni, R. (682) 101
Oron, Y., see Fields, A. (687) 94
Orosco, M., Gerozissis, K., Rouch, C. and Nicolaïdis, S.
Feeding-related immunoreactive insulin changes in the PVN–VMH revealed by microdialysis (671) 149
Orosco, M., see Gerozissis, K. (689) 239
O'Rourke, D., see Stieber, A. (700) 261
Ortiz-Jimenez, E., see Brightman, T. (678) 110
Osada, T., Ichikawa, M. and Costanzo, R.M.
Is nestin a marker for chemosensory precursor cells? (683) 254
Osanai, S., see Lahiri, S. (684) 194
Osborne, N.N., see Barnett, N.L. (677) 337
Osonoe, K., see Mori, N. (703) 184
Osonoe, M., see Tsunoda, K. (691) 18
Osumi, Y., see Tamura, N. (676) 363
Otake, K., Ruggiero, D.A. and Nakamura, Y.
Adrenergic innervation of forebrain neurons that project to the paraventricular thalamic nucleus in the rat (697) 17
Otoom, S., see Tian, L.-M. (680) 164
Otsuka, N., see Mizuguchi, M. (697) 235
Otsuka, Y., see Ojika, K. (701) 19
Ottenweller, J.E., see Laemle, L.K. (688) 203
Ottersen, O.P., see Maxwell, D.J. (676) 103
Ottersen, O.P., see Usami, S.-i. (676) 277
Ottersen, O.P., see Usami, S.-i. (676) 285
Ottinger, M.A., see Dellovade, T.L. (674) 181
Ou, L.C., see Liu, K.J. (685) 91
Outerbridge, E.W., see Lee, C. (689) 233
OuYang, Y.-B., Kristián, T., Kristiánová, V., Mellergård, P. and Siesjö, B.K.
The influence of calcium transients on intracellular pH in cortical neurons in primary culture (676) 307
Ovalle, S., see San Juan, I. (698) 209
Overholser, J.C., see Sumiyoshi, T. (681) 109
Overton, P.G., see Tong, Z.-Y. (674) 63
Owens, M.J., see See, R.E. (704) 202
Owens Jr, J. and Schwartzkroin, P.A.
Suppression of evoked IPSPs by arachidonic acid and prostaglandin $F_{2\alpha}$ (691) 223
Oyelese, A.A., see Honmou, O. (692) 273
Oz, M., see Fan, P. (673) 181
Ozaki, Y., see Onizuka, K. (697) 179
Ozawa, H., see Hatta, S. (704) 23

P

Pacak, K., McCarty, R., Palkovits, M., Kopin, I.J. and Goldstein, D.S.
Effects of immobilization on in vivo release of norepinephrine in the bed nucleus of the stria terminalis in conscious rats (688) 242
Pacheco, P., see Del Cerro, M.C.R. (696) 213
Pachter, J.S., see Biegel, D. (692) 183
Packianathan, S., Cain, C.D., Liwnicz, B.H. and Longo, L.D.
Ornithine decarboxylase activity in vitro in response to acute hypoxia: a novel use of newborn rat brain slices (688) 61
Paden, C.M., see Babcock, A.M. (705) 307
Padua, R.A., see Nath, A. (678) 200
Page, G.K. and Morton, A.J.
Correlation of neuronal loss with increased expression of NADPH diaphorase in cultured rat cerebellum and cerebral cortex (697) 157
Paíno, C.L., see Pardo, B. (682) 133
Pakkenberg, B., see Pakkenberg, H. (693) 201
Pakkenberg, H., Andersen, B.B., Burns, R.S. and Pakkenberg, B.
A stereological study of substantia nigra in young and old rhesus monkeys (693) 201
Palade, P., see Dettbarn, C. (669) 79
Palkovits, M., Somogyvári-Vigh, A. and Arimura, A.
Concentrations of pituitary adenylate cyclase activating polypeptide (PACAP) in human brain nuclei (699) 116
Palkovits, M., see Fodor, M. (690) 141
Palkovits, M., see Nicot, A. (702) 279
Palkovits, M., see Pacak, K. (688) 242
Palm, D.E., Knuckey, N.W., Primiano, M.J., Spangenberger, A.G. and Johanson, C.E.
Cystatin C, a protease inhibitor, in degenerating rat hippocampal neurons following transient forebrain ischemia (691) 1
Pan, B.H., see Castro-Lopes, J.M. (679) 289
Pan, W.H.T. and Lee, J.-C.
Determination of microdialysis extraction fraction of cocaine by the no net flux method under high, low, and zero steady-state cocaine concentrations in rats (686) 249
Panchin, Y.V., Popova, L.B., Pavlova, G.A., Zelenin, P.V. and Arshavsky, Y.I.
Formation of connections between cultured identified neurones from the pleural ganglion of the pteropod mollusc *Clione limacina* (669) 315
Panchision, D.M., see Jakoi, E.R. (693) 124
Panesar, G., see Scott, J.J.A. (671) 325
Pang, L., see Zhang, X.-Q. (676) 413
Panizzon, K.L., see Wallis, R.A. (674) 75
Panizzon, K.L., see Wallis, R.A. (685) 225
Panneton, W.M. and Yavari, P.
A medullary dorsal horn relay for the cardiorespiratory responses evoked by stimulation of the nasal mucosa in the muskrat *Ondatra zibethicus*: evidence for excitatory amino acid transmission (691) 37
Panter, S.S., see Regan, R.F. (682) 144
Panter, S.S., see Regan, R.F. (705) 188
Panzica, F., see Franceschetti, S. (696) 127
Papa, S.M., Boldry, R.C., Engber, T.M., Kask, A.M. and Chase, T.N.
Reversal of levodopa-induced motor fluctuations in experimental parkinsonism by NMDA receptor blockade (701) 13
Papa, S.M., see Boldry, R.C. (692) 259
Papadopoulos, V., see Guarneri, P. (683) 65
Papp, A. and Klee, M.R.
Alterations in the action potential of *Aplysia* neurons evoked by a phorbolester are mediated by protein kinase C (684) 107

Pappas, T.N., see Okumura, T. (673) 153
Pappas, T.N., see Okumura, T. (674) 137
Parada, M.A., Puig de Parada, M., Rada, P. and Hernandez, L.
Sulpiride increases and dopamine decreases intracranial temperature in rats when injected in the lateral hypothalamus: an animal model for the neuroleptic malignant syndrome? (674) 117
Parada, M.A., see Puig de Parada, M. (696) 254
Paratcha, G.Ch., see Ibarra, G.R. (705) 39
Pardini, C., see Vaglini, F. (674) 127
Pardo, B., Mena, M.A., Casarejos, M.J., Paíno, C.L. and De Yébenes, J.G.
Toxic effects of L-DOPA on mesencephalic cell cultures: protection with antioxidants (682) 133
Pardridge, W.M., see Skarlatos, S. (683) 164
Parent, A., Charara, A. and Pinault, D.
Single striatofugal axons arborizing in both pallidal segments and in the substantia nigra in primates (698) 280
Parent, A., Cicchetti, F. and Beach, T.G.
Calretinin-immunoreactive neurons in the human striatum (674) 347
Parent, A., see Deschênes, M. (701) 288
Parent, A., see Hazrati, L.-N. (679) 123
Parent, A., see Hontanilla, B. (696) 121
Parent, M.B., Avila, E. and McGaugh, J.L.
Footshock facilitates the expression of aversively motivated memory in rats given post-training amygdala basolateral complex lesions (676) 235
Parham, K., see Zhao, H.B. (700) 295
Park, D.D., see Yin, H.-z. (689) 265
Parmeggiani, P.L., see Azzaroni, A. (671) 78
Parmeggiani, P.L., see Perez, E. (684) 56
Parnet, P., see Goujon, E. (702) 173
Parsons, D.S., see Ayyagari, V. (676) 394
Parsons, D.S., see Harrell, L.E. (676) 386
Parsons, D.S., see Kolasa, K. (684) 201
Parsons, K., see Holliday, J. (673) 141
Parsons, S.M., see Pemberton, K.E. (671) 267
Pascual, T. and Gonzalez, J.-L.
A protective effect of lithium on rat behaviour altered by ibotenic acid lesions of the basal forebrain cholinergic system (695) 289
Pasternak, G.W., see Cole, J.L. (678) 168
Pastuskovas, C.V., see Vivas, L. (679) 34
Patel, A.J., see Gray, C.W. (691) 169
Patel, N.A., see Chang, S.L. (679) 89
Patel, T.R. and McCulloch, J.
AMPA receptor antagonism attenuates MK-801-induced hypermetabolism in the posterior cingulate cortex (686) 254
Patrikios, P., see Brasko, J. (699) 133
Patrikios, P., see Ross, D.T. (683) 117
Patston, P.A., see Walker, D.G. (675) 75
Paul, I.A., see Nowak, G. (675) 157
Pavia, J.M., Hastings, J.A. and Morris, M.J.
Neuropeptide Y potentiation of potassium-induced noradrenaline release in the hypothalamic paraventricular nucleus of the rat in vivo (690) 108
Pavlaković, G., Eyer, C.L. and Isom, G.E.
Neuroprotective effects of PKC inhibition against chemical hypoxia (676) 205
Pavlova, G.A., see Panchin, Y.V. (669) 315
Pawar, G., see Levin, B.E. (674) 307
Pawlyk, A.C., see Yu, A. (688) 209
Pax, A.B., see Kalaria, R.N. (705) 349
Paxinos, G., see MacGregor, D.P. (675) 231
Paylor, R., see Fordyce, D.E. (672) 170
Payne, L., see Fang, J. (686) 23
Payne, R.S., see Schurr, A. (684) 233
Pazos, A.J., Orezzoli, S.L., McCabe, P.M., Dietrich, W.D. and Green, E.J.
Recovery of vibrissae-dependent behavioral responses following barrelfield damage is not dependent upon the remaining somatosensory cortical tissue (689) 224
Pazos, A.J., see Green, E.J. (702) 145
Pazzagli, M., Corsi, C., Fratti, S., Pedata, F. and Pepeu, G.
Regulation of extracellular adenosine levels in the striatum of aging rats (684) 103
Pearce, L.B., see Livezey, R.T. (692) 93
Pearce, R., Galdzicki, Z. and Rapoport, S.I.
Decreased sensitivity to nerve growth factor of dorsal root ganglion neurons cultured from mouse trisomy 16, a model of Down's syndrome (680) 108
Pearl, S.M., Herrick-Davis, K., Teitler, M. and Glick, S.D.
Radioligand-binding study of noribogaine, a likely metabolite of ibogaine (675) 342
Pearson, D.V., see Hyslop, P.A. (671) 181
Pecci Saavedra, J., see Mallo, G. (693) 196
Pedata, F., see Pazzagli, M. (684) 103
Pedersen, C.A., see Caldwell, J.D. (693) 225
Pedroarena, C., see Engelhardt, J.K. (675) 241
Peinado, J.M., see Iribar, C. (687) 211
Pelletier, G., Luu-The, V. and Labrie, F.
Immunocytochemical localization of type I 17β-hydroxysteroid dehydrogenase in the rat brain (704) 233
Pelletier, G., see Garcia de Yebenes, E. (674) 112
Pelligrino, D.A., Wang, Q., Koenig, H.M. and Albrecht, R.F.
Role of nitric oxide, adenosine, *N*-methyl-D-aspartate receptors, and neuronal activation in hypoxia-induced pial arteriolar dilation in rats (704) 61
Pellín, A., see O'Connor, E. (680) 157
Pemberton, K.E., Nguyen, M.L., Prior, C., Parsons, S.M. and Marshall, I.G.
Effect of veratridine on miniature endplate current amplitudes at the rat neuromuscular junction and acetylcholine uptake by *Torpedo* synaptic vesicles (671) 267
Penev, P.D., Turek, F.W. and Zee, P.C.
A serotonin neurotoxin attenuates the phase-shifting effects of triazolam on the circadian clock in hamsters (669) 207
Peng, N., see Luo, Y. (687) 191
Penke, B., see Harkany, T. (695) 71
Penke, B., see Harkany, T. (698) 270
Pepeu, G., see Pazzagli, M. (684) 103
Pequignot, J.M., see Soulier, V. (674) 188
Peraçoli, A.M., see Cipolla-Neto, J. (691) 133
Perciavalle, V., Bosco, G. and Poppele, R.
Correlated activity in the spinocerebellum is related to spinal timing generators (695) 293
Pérès, M., see Piérard, C. (693) 251
Peresson, M., see Narici, L. (703) 31
Perez, E., Zamboni, G., Amici, R., Jones, C.A. and Parmeggiani, P.L.
cAMP accumulation in the hypothalamus, cerebral cortex, pineal gland and brown fat across the wake–sleep cycle of the rat exposed to different ambient temperatures (684) 56
Perez-Otano, I., see Bronstein, D.M. (704) 112
Pérez-Pinzón, M.A. and Rice, M.E.
Seasonal- and temperature-dependent variation in CNS ascorbate and glutathione levels in anoxia-tolerant turtles (705) 45
Perez-Polo, J.R., see Yu, J. (705) 247
Perez Izquierdo, M.A., see Del Cerro, M.C.R. (696) 213
Periyasamy, S., Messer, Jr., W.S., Roknich, S., Sauerberg, P. and Hoss, W.
1,2,5-Thiadiazole derivatives of arecoline stimulate M_1 receptors coupled to phosphoinositide turnover (693) 118
Perlman, I., see Pfeiffer-Linn, C.L. (701) 81
Permanne, B., Buée, L., David, J.-P., Fallet-Bianco, C., Di Menza, C. and Delacourte, A.
Quantitation of Alzheimer's amyloid peptide and identification of related amyloid proteins by dot-blot immunoassay (685) 154
Perrin, C., see Rossby, S.P. (687) 79
Perry, G., see Castellani, R. (696) 268
Perry, G., see Shimohama, S. (669) 217
Perry, G., see Shimohama, S. (699) 125
Pesold, C. and Treit, D.
The central and basolateral amygdala differentially mediate the anxiolytic effects of benzodiazepines (671) 213
Petersen, D.L., see Sharp, J.W. (687) 114
Peterson, S.L.
Infusion of NMDA antagonists into the nucleus reticularis pontis oralis inhibits the maximal electroshock seizure response (702) 101
Petit, J., see Davies, P. (690) 82
Petit, J., see Scott, J.J.A. (697) 225
Petite, D. and Calvet, M.-C.
Cryopreserved neuronal cells in long-term cultures of dissociated rat cerebral cortex: survival and morphometric characteristics as revealed by immunocytochemistry (669) 263
Petras, J.M., see Clapp, L.E. (693) 101
Pettigrew, L.C., Meyer, J.J., Craddock, S.D., Butler, S.M., Tai, H.-H. and Yokel, R.A.
Delayed elevation of platelet activating factor in ischemic hippocampus (691) 243

Pettorossi, V.E., see Grassi, S. (699) 183
Pfaff, D.W., see Kow, L.-M. (694) 29
Pfaus, J.G., Damsma, G., Wenkstern, D. and Fibiger, H.C.
Sexual activity increases dopamine transmission in the nucleus accumbens and striatum of female rats (693) 21
Pfaus, J.G., see Edelstein, K. (675) 135
Pfeiffer-Linn, C.L., Perlman, I. and Lasater, E.M.
Sodium dependency of the inward potassium rectifier in horizontal cells isolated from the white bass retina (701) 81
Pfeiffer, S.W., see Sawchenko, P.E. (694) 233
Phebus, L.A., see Hyslop, P.A. (671) 181
Phelps, C.P., Sahu, A., Oliver, J., Ma, X.-L., Kalra, P.S., Kalra, S.P., Menzies, R.A., Chen, L., Denker, M., Horvath, E. and Poole, L.L.
In vivo release of interleukin-1β into hypothalamic extracellular fluid in rats: effects of repeated sampling (688) 193
Philbert, M.A., see Huang, J. (680) 16
Phillips, L.L., see Mao, J. (677) 257
Phillips, P.J., see Lambert, P.D. (670) 59
Phillis, J.W.
The effects of selective A_1 and A_{2a} adenosine receptor antagonists on cerebral ischemic injury in the gerbil (705) 79
Piazza, P.V., see Haney, M. (698) 46
Picazo, O. and Fernández-Guasti, A.
Anti-anxiety effects of progesterone and some of its reduced metabolites: an evaluation using the burying behavior test (680) 135
Piccoli, F., see Guarneri, P. (683) 65
Pickard, G.E., Sollars, P.J., Rinchik, E.M., Nolan, P.M. and Bucan, M.
Mutagenesis and behavioral screening for altered circadian activity identifies the mouse mutant, *Wheels* (705) 255
Pickavance, L., see Dryden, S. (690) 185
Pickavance, L., see Dryden, S. (699) 12
Pickel, V.M., see Sesack, S.R. (672) 261
Pickel, V.M., see Svingos, A.L. (700) 25
Pickel, V.M., see Van Bockstaele, E.J. (682) 215
Picker, Z., see Ågmo, A. (696) 177
Piel, C., see Hochstrate, P. (696) 231
Piepmeier, J.M., see Klepper, S. (695) 245
Piérard, C., Satabin, P., Lagarde, D., Barrère, B., Guezennec, C.Y., Menu, J.P. and Pérès, M.
Effects of a vigilance-enhancing drug, modafinil, on rat brain metabolism: a 2D COSY ^{1}H-NMR study (693) 251
Pierce, J.P., see Milner, T.A. (670) 121
Pierce, R.C., Rowlett, J.K., Rebec, G.V. and Bardo, M.T.
Ascorbate potentiates amphetamine-induced conditioned place preference and forebrain dopamine release in rats (688) 21
Piercey, M.F., see Calon, F. (680) 43
Pierre, K., see Olive, S. (689) 271
Pietrini, P., see Freo, U. (677) 213
Pike, B.R. and Hamm, R.J.
Post-injury administration of BIBN 99, a selective muscarinic M_2 receptor antagonist, improves cognitive performance following traumatic brain injury in rats (686) 37
Pike, C.J. and Cotman, C.W.
Calretinin-immunoreactive neurons are resistant to β-amyloid toxicity in vitro (671) 293
Pinard, E., see Rigaud-Monnet, A.-S. (673) 297
Pinault, D., Bourassa, J. and Deschênes, M.
Thalamic reticular input to the rat visual thalamus: a single fiber study using biocytin as an anterograde tracer (670) 147
Pinault, D., see Hazrati, L.-N. (679) 123
Pinault, D., see Parent, A. (698) 280
Pioro, E., see Burgos, I. (692) 154
Pistis, M., see Diana, M. (682) 29
Pitcher, G.M., see Yashpal, K. (674) 97
Pithon, E., see Monnet-Tschudi, F. (690) 8
Pitman, R.M., see David, J.A. (669) 153
Pittman, Q.J., see Earle, M.L. (669) 41
Pizzella, V., see Kristeva-Feige, R. (682) 22
Pizzo, D.P., see Yu, J. (705) 247
Pizzolato, G., see Freo, U. (677) 213
Planas, A.M., Ferrer, I. and Rodríguez-Farré, E.
NMDA receptors mediate heat shock protein induction in the mouse brain following administration of the ibotenic acid analogue AMAA (700) 289
Planas, A.M., see Ferrer, I. (692) 41
Planas, A.M., see Soriano, M.A. (670) 317
Plant, G.W., Harvey, A.R. and Chirila, T.V.
Axonal growth within poly (2-hydroxyethyl methacrylate) sponges infiltrated with Schwann cells and implanted into the lesioned rat optic tract (671) 119
Pluta, R., see Kida, E. (674) 341
Poblete, J.C. and Azmitia, E.C.
Activation of glycogen phosphorylase by serotonin and 3,4-methylenedioxymethamphetamine in astroglial-rich primary cultures: involvement of the 5-HT_{2A} receptor (680) 9
Poblete, J.C.P., see Kramer, H.K. (680) 1
Podos, S.M., see Vickers, J.C. (680) 23
Poe, G.R., see Rector, D.M. (696) 151
Pollard, H.B., see Goping, G. (687) 35
Polosa, C., see Zhang, C. (683) 59
Poole, L.L., see Phelps, C.P. (688) 193
Poosch, M.S., see Bannon, M.J. (695) 19
Popova, L.B., see Panchin, Y.V. (669) 315
Poppele, R., see Perciavalle, V. (695) 293
Popper, P., see Babcock, A.M. (705) 307
Porreca, F., see Mayfield, K.P. (676) 358
Portas, C., see Marrosu, F. (671) 329
Porter, J.R., see Prasad, C. (699) 149
Porteros, A., Arévalo, R., Crespo, C., García-Ojeda, E., Briñón, J.G., Aijón, J. and Alonso, J.R.
Calbindin D-28k immunoreactivity in the rat accessory olfactory bulb (689) 93
Porteros, A., see Arévalo, R. (671) 112
Pose, I., see Engelhardt, J.K. (675) 241
Post, R.M., see Gao, X.-M. (703) 63
Postema, F., see Krugers, H.J. (696) 89
Potempska, A., see Frackowiak, J. (676) 225
Poulain, D.A., see Boudaba, C. (672) 1
Pozzi, L., Trabace, L., Invernizzi, R. and Samanin, R.
Intranigral GR-113808, a selective 5-HT_4 receptor antagonist, attenuates morphine-stimulated dopamine release in the rat striatum (692) 265
Pozzi, L., see Invernizzi, R. (670) 165
Prabhakar, E., see McCarthy, P.W. (704) 79
Prabhakar, N.R., Shenoy, B.C., Simonson, M.S. and Cherniack, N.S.
Cell selective induction and transcriptional activation of immediate early genes by hypoxia (697) 266
Prabhakar, S., D'Souza, S., Antel, J.P., McLaurin, J.A., Schipper, H.M. and Wang, E.
Phenotypic and cell cycle properties of human oligodendrocytes in vitro (672) 159
Prado, M.A.M., see Leão, R.M. (703) 86
Praprotnik, D., see Shimohama, S. (669) 217
Prasad, C., Mizuma, H., Brock, J.W., Porter, J.R., Svec, F. and Hilton, C.
A paradoxical elevation of brain cyclo(His-Pro) levels in hyperphagic obese Zucker rats (699) 149
Prasad, M.R., see Dhillon, H.S. (698) 100
Pribitkin, E.A., see Rawson, N.E. (681) 58
Price, D.D., see Mao, J. (677) 257
Price, S.L., see Rivkees, S.A. (677) 193
Prickaerts, J., Blokland, A., Honig, W., Meng, F. and Jolles, J.
Spatial discrimination learning and choline acetyltransferase activity in streptozotocin-treated rats: effects of chronic treatment with acetyl-L-carnitine (674) 142
Primiano, M.J., see Palm, D.E. (691) 1
Prins, G.S., see Iqbal, J. (703) 1
Prinssen, E.P.M., Ellenbroek, B.A., Stamatovic, B. and Cools, A.R.
Role of striatal dopamine D_2 receptors in the paw test, an animal model for the therapeutic efficacy and extrapyramidal side effects of neuroleptic drugs (673) 283
Prior, C., see Pemberton, K.E. (671) 267
Pritchard, G.A., see Fahey, J.M. (669) 183
Privat, A., see Gerin, C. (704) 191
Privat, A., see Lockhart, B.P. (670) 313
Privat, A., see Lockhart, B.P. (675) 110
Privat, A., see Roudet, C. (677) 1
Privitera, P.J. and Yates, P.
Hypertensive effect of tissue kallikrein in rostral ventrolateral medulla is mediated by brain kinins (704) 103
Prolov, K., see Fleischmann, A. (699) 130
Provencio, I. and Foster, R.G.
Circadian rhythms in mice can be regulated by photoreceptors with cone-like characteristics (694) 183
Puertes, I.R., see O'Connor, E. (680) 157
Pugh, Jr., G., Abood, M.E. and Welch, S.P.
Antisense oligodeoxynucleotides to the κ-1

receptor block the antinociceptive effects of Δ^9-THC in the spinal cord (689) 157
Puig de Parada, M., Parada, M.A. and Hernández, L.
Dipsogenic effect of pituitary adenylate cyclase activating polypeptide (PACAP38) injected into the lateral hypothalamus (696) 254
Puig de Parada, M., see Parada, M.A. (674) 117
Puka-Sundvall, M., Eriksson, P., Nilsson, M., Sandberg, M. and Lehmann, A.
Neurotoxicity of cysteine: interaction with glutamate (705) 65
Pundik, S., see LaManna, J.C. (687) 175
Pundt, L.L., Kondoh, T. and Low, W.C.
The fate of human glial cells following transplantation in normal rodents and rodent models of neurodegenerative disease (695) 25
Puro, D.G., see Ikeda, T. (686) 87

Q

Qian, X., see Stieber, A. (700) 261
Qiao, J.-t., see Yang, S.-w. (673) 170
Qiu, K. and Han, Z.-S.
Local projections of GABAergic neurons in the dentate gyrus and CA1 region in the rat hippocampal formation (702) 287
Qu, T., see Dong, K. (703) 231
Quadri, S.K., see ThyagaRajan, S. (689) 122
Quast, M.J., Wei, J. and Huang, N.C.
Nitric oxide synthase inhibitor N^G-nitro-L-arginine methyl ester decreases ischemic damage in reversible focal cerebral ischemia in hyperglycemic rats (677) 204
Quatacker, J., Annaert, W. and De Potter, W.
The organisation of the axonal reticulum at a ligation, in in vitro incubated bovine splenic nerves (680) 36
Quirk, G.J., Mejia, W.R., Hesse, H. and Su, H.
Early malnutrition followed by nutritional restoration lowers the conduction velocity and excitability of the corticospinal tract (670) 277
Quock, R.M., see Hara, S. (675) 190

R

Racagni, G., see Maggio, R. (679) 184
Racine, R., see Milgram, N.W. (670) 112
Racine, R.J., Chapman, C.A., Teskey, G.C. and Milgram, N.W.
Post-activation potentiation in the neocortex. III. Kindling-induced potentiation in the chronic preparation (702) 77
Racine, R.J., Chapman, C.A., Trepel, C., Teskey, G.C. and Milgram, N.W.
Post-activation potentiation in the neocortex. IV. Multiple sessions required for induction of long-term potentiation in the chronic preparation (702) 87
Racine, R.J., see McIntyre Burnham, W. (698) 180
Rada, P., see Parada, M.A. (674) 117
Rada, P.V., see Mark, G.P. (688) 184
Radovanović, S., see Ljubisavljević, M. (691) 99
Raffa, R.B. and Martinez, R.P.
The 'glibenclamide-shift' of centrally-acting antinociceptive agents in mice (677) 277
Rafique, S., see Ginsberg, L. (698) 223
Ragnauth, A., see Bodnar, R.J. (700) 205
Ragozzino, M.E., see Login, I.S. (697) 271
Rai, D.R., see Gulati, A.K. (705) 118
Rai, P., see Brasko, J. (699) 133
Raikoff, K., see Neafsey, E.J. (675) 279
Raitiere, M.N., Garyfallou, V.T. and Urbanski, H.F.
Lesions in the bed nucleus of the stria terminalis, but not in the lateral septum, inhibit short-photoperiod-induced testicular regression in Syrian hamsters (705) 159
Rajakumar, N., see Stoessl, A.J. (700) 115
Raju, T.R., see Sunanda, (694) 312
Raley-Susman, K.M. and Murata, J.
Time course of protein changes following in vitro ischemia in the rat hippocampal slice (694) 94
Ramakers, G.M.J., see Chepkova, A.N. (701) 255
Rambaud, C., see Jordan, D. (695) 117
Rambotti, M.G., see Sorci, G. (683) 51
Ramos, J.A., see Romero, J. (694) 223
Rance, N.E., see Wenk, G.L. (679) 8
Rand, M.S., see Kendrick, A.M. (680) 226
Randall, M.E., see Faingold, C.L. (704) 218
Randall, R.D., Lee, S.Y., Meyer, J.H., Wittenberg, G.F. and Gruol, D.L.
Acute alcohol blocks neurosteroid modulation of synaptic transmission and long-term potentiation in the rat hippocampal slice (701) 238
Randall, T.S., see Borlongan, C.V. (676) 231
Randić, M., see Kolaj, M. (671) 227
Rao, A.M., see Wood, W.G. (683) 36
Rao, M.S., see Sunanda, (694) 312
Rao, V.M., see Rawson, N.E. (681) 58
Rapoport, S.I., see Acevedo, L.D. (701) 89
Rapoport, S.I., see Ginsberg, L. (698) 223
Rapoport, S.I., see Pearce, R. (680) 108
Rapoport, S.I., see Wakabayashi, S. (679) 110
Rashbaum, W.K., see Larocca, J.N. (701) 135
Rashidy-Pour, A., Motaghed-Larijani, Z. and Bures, J.
Tolerance to ketamine-induced blockade of cortical spreading depression transfers to MK-801 but not to AP5 in rats (693) 64
Rasquinha, I., see Hill, I.E. (676) 398
Rathbone, M.P., see Middlemiss, P.J. (677) 152
Raucci, J., see Glick, S.D. (681) 147
Rauh, J.J., see Hosie, A.M. (693) 257
Rauhala, P., see Sziráki, I. (698) 285
Raupach, A., see Schreiber, S.J. (703) 227
Rauvala, H., see Wewetzer, K. (693) 31
Ravel, N., see Mouly, A.-M. (681) 47
Ravid, R., see Garlind, A. (681) 160
Ravindranath, V., see Bhamre, S. (672) 276
Rawson, N.E., Brand, J.G., Cowart, B.J., Lowry, L.D., Pribitkin, E.A., Rao, V.M. and Restrepo, D.
Functionally mature olfactory neurons from two anosmic patients with Kallmann syndrome (681) 58
Ray, A., see Gulati, K. (690) 99
Rea, M.A., see Gannon, R.L. (694) 264
Rea, M.A., see Weber, E.T. (692) 137
Reagan, K.E., Wilmarth, K.R., Friedman, M.A. and Abou-Donia, M.B.
In vitro calcium and calmodulin-dependent kinase-mediated phosphorylation of rat brain and spinal cord neurofilament proteins is increased by glycidamide administration (671) 12
Reba, R.C., see Gitler, M.S. (687) 71
Reba, R.C., see Gitler, M.S. (704) 151
Rebec, G.V., see Pierce, R.C. (688) 21
Rebello, S., Roy, S., Saxena, P.R. and Gulati, A.
Systemic hemodynamic and regional circulatory effects of centrally administered endothelin-1 are mediated through ET_A receptors (676) 141
Rechtschaffen, A., see Feng, P.-F. (703) 93
Recio-Pinto, E., see Salazar, B.C. (699) 305
Rector, D.M., Poe, G.R., Kristensen, M.P. and Harper, R.M.
Imaging the dorsal hippocampus: light reflectance relationships to electroencephalographic patterns during sleep (696) 151
Redmond, J.C., see Neisewander, J.L. (671) 201
Reed, G.E., Kirchner, J.E. and Carr, L.G.
NF-Y activates mouse tryptophan hydroxylase transcription (682) 1
Rees, S., see Roufail, E. (684) 36
Reeves, R.H., see Yao, J. (702) 32
Regan, R.F. and Panter, S.S.
Traumatic neuronal injury in cortical cell culture is attenuated by 21-aminosteroids (682) 144
Regan, R.F., Panter, S.S., Witz, A., Tilly, J.L. and Giffard, R.G.
Ultrastructure of excitotoxic neuronal death in murine cortical culture (705) 188
Rehavi, M., see Gordon, I. (674) 205
Reid, C., see Milgram, N.W. (670) 112
Reid, K.H., see Iyer, V.G. (689) 159
Reid, K.H., see Sosnowski, J.S. (702) 37
Reilein, A.R., see Alcantara, A.A. (701) 47
Reinoso-Suárez, F., see Amer-Ferrer, G. (695) 283
Reis, D.J., see Aicher, S.A. (693) 51
Reisine, T., see Lane, C.M. (698) 15
Reiter, M.K., see Desaulles, E. (699) 139
Relton, J., see Watkins, L.R. (692) 244
Ren, K., Thomas, D.A. and Dubner, R.
Nerve growth factor alleviates a painful peripheral neuropathy in rats (699) 286
Reser, D., see Steinschneider, M. (674) 147

Restrepo, D., see Honda, E. (703) 79
Restrepo, D., see Rawson, N.E. (681) 58
Reuss, S., Decker, K., Rößeler, L., Layes, E., Schollmayer, A. and Spessert, R.
Nitric oxide synthase in the hypothalamic suprachiasmatic nucleus of rat: evidence from histochemistry, immunohistochemistry and Western blot; and colocalization with VIP (695) 257
Revuelta, M., see Venero, J.L. (672) 153
Reyes, A.D., see Hyson, R.L. (677) 117
Reyes, M., see Scalia, F. (685) 187
Reyes, M.R., see Savory, J. (669) 325
Rhein, F.Q., see Advokat, C. (699) 157
Rhoades, R.W., see Bennett-Clarke, C.A. (702) 255
Rhyner, T.A., see Neuner-Jehle, M. (685) 143
Ribeiro-da-Silva, A., see Ma, W. (692) 99
Ricciardi, T.N. and Malouf, A.T.
Differential effects of zinc on hyperpolarizing and depolarizing $GABA_A$ synaptic potentials in hippocampal slice cultures (680) 80
Riccio, A., see Bertolotto, A. (673) 344
Rice, A., see Holman, S.D. (694) 167
Rice, M.E., see Pérez-Pinzón, M.A. (705) 45
Richardson, D.E., see Dempesy, C.W. (704) 141
Richardson Morton, K.D., Johnson, M.D. and Van de Kar, L.D.
Serotonin and stress-induced increases in renin secretion are not blocked by sympathectomy/adrenal medullectomy but are blocked by β antagonists (698) 185
Richey, P., see Shimohama, S. (669) 217
Richey, P.L., see Castellani, R. (696) 268
Rickmann, M., Wolff, J.R. and Meyer, D.L.
Expression of S100 protein in the vestibular nuclei during compensation of unilateral labyrinthectomy symptoms (688) 8
Rieck, R.W., Nabors, C.C., Updyke, B.V. and Kratz, K.E.
Organization of the basal forebrain in the cat: localization of L-enkephalin, substance P, and choline acetyltransferase immunoreactivity (672) 237
Riedel, M.W., Anneser, F. and Haberl, R.L.
Different mechanisms of L-arginine induced dilation of brain arterioles in normotensive and hypertensive rats (671) 21
Riederer, B.M., see Vickers, J.C. (680) 23
Riekkinen, M., see Riekkinen Jr., P. (685) 46
Riekkinen, P.J., see Halonen, T. (693) 217
Riekkinen Jr., P., Kuitunen, J. and Riekkinen, M.
Effects of scopolamine infusions into the anterior and posterior cingulate on passive avoidance and water maze navigation (685) 46
Rigaud-Monnet, A.-S., Héron, A., Seylaz, J. and Pinard, E.
Effect of inhibiting NO synthesis on hippocampal extracellular glutamate concentration in seizures induced by kainic acid (673) 297
Rigor, B.M., see Schurr, A. (684) 233
Rimanóczy, A. and Vathy, I.
Prenatal exposure to morphine alters brain μ opioid receptor characteristics in rats (690) 245
Rinchik, E.M., see Pickard, G.E. (705) 255
Riopelle, R.J., see Zochodne, D.W. (698) 130
Rios, J.C., see Azmitia, E.C. (677) 181
Ripley, T.L. and Little, H.J.
Ethanol withdrawal hyperexcitability in vitro is selectively decreased by a competitive NMDA receptor antagonist (699) 1
Rising, L., Vitarella, D., Kimelberg, H.K. and Aschner, M.
Cadmium chloride ($CdCl_2$)-induced metallothionein (MT) expression in neonatal rat primary astrocyte cultures (678) 91
Risling, M., see Foster, E. (686) 123
Rissman, E.F., see Dellovade, T.L. (674) 181
Riva, M., see Maggio, R. (679) 184
Rivera, E.M., see Ferchmin, P.A. (689) 189
Rivest, R., Falardeau, P. and Di Paolo, T.
Brain dopamine transporter: gender differences and effect of chronic haloperidol (692) 269
Rivier, C., see Lee, S. (705) 136
Rivkees, S.A., Price, S.L. and Zhou, F.C.
Immunohistochemical detection of A_1 adenosine receptors in rat brain with emphasis on localization in the hippocampal formation, cerebral cortex, cerebellum, and basal ganglia (677) 193
Roberts, Jr., E.L. and Chih, C.-P.
Age-related alterations in energy metabolism contribute to the increased vulnerability of the aging brain to anoxic damage (678) 83
Roberts, K.A., Krebs, L.T., Kramár, E.A., Shaffer, M.J., Harding, J.W. and Wright, J.W.
Autoradiographic identification of brain angiotensin IV binding sites and differential c-Fos expression following intracerebroventricular injection of angiotensin II and IV in rats (682) 13
Roberts, M.H.T., see Terenzi, M.G. (701) 183
Roberts, R.C., Strain-Saloum, C. and Wiley, R.G.
Effects of suicide transport lesions of the striatopallidal or striatonigral pathways on striatal ultrastructure (701) 227
Roberts, T.P.L., Vexler, Z.S., Derugin, N., Kozniewska, E., Kucharczyk, J. and Emmett, C.J.
Evaluation of recombinant human basic fibroblast growth factor (rhbFGF) as a cerebroprotective agent using high speed MR imaging (699) 51
Robinson, B., see Woodside, B. (690) 48
Robinson, M.B., see Messam, C.A. (684) 221
Robinson, P.P., see Smith, K.G. (691) 142
Robinson, S.E., see Smith, J.A. (683) 264
Robinson, T.E., see Badiani, A. (673) 13
Robinson, T.E., see Badiani, A. (674) 291
Robinson, T.E., see Badiani, A. (678) 269
Rochford, J., see Welner, S.A. (671) 309
Roda, J.M., see Avendaño, C. (673) 83
Roder, S. and Ciriello, J.
Convergence of ventrolateral medulla and aortic baroreceptor inputs onto amygdala neurons (705) 71
Rodríguez-Farré, E., see Planas, A.M. (700) 289
Rodríguez-Farré, E., see Soriano, M.A. (670) 317
Rodriguez-Farré, E., see Espino, A. (669) 19
Rodriguez-Gabin, A.G., see Larocca, J.N. (701) 135
Rodriguez, J.A., see Ibarra, G.R. (705) 39
Rodríguez, M. and Barroso, N.
β-Phenylethylamine regulation of dopaminergic nigrostriatal cell activity (703) 201
Rogers, A.T., see Barrantes, G.E. (672) 228
Rogers, J.H., see Fok-Seang, J. (689) 207
Rohlfs, A., see Löscher, W. (702) 133
Rohner-Jeanrenaud, F., see Doyle, P. (684) 47
Rohrer, B. and Stell, W.K.
Localization of putative dopamine D_2-like receptors in the chick retina, using in situ hybridization and immunocytochemistry (695) 110
Rohrer, B., Iuvone, P.M. and Stell, W.K.
Stimulation of dopaminergic amacrine cells by stroboscopic illumination or fibroblast growth factor (bFGF, FGF-2) injections: possible roles in prevention of form-deprivation myopia in the chick (686) 169
Roig-Cantisano, A., see Itzhak, Y. (705) 345
Roisen, F.J., see Sosnowski, J.S. (702) 37
Roisin, M.-P. and Deschepper, C.F.
Identification and cellular localization of protein kinase C isoforms in cultures of rat type-1 astrocytes (701) 297
Roknich, S., see Periyasamy, S. (693) 118
Rollema, H., see Matos, F.F. (693) 187
Romand, R., see Jalenques, I. (686) 223
Romani, G.L., see Kristeva-Feige, R. (682) 22
Romero, A.A., see Chang, S.L. (679) 89
Romero, J., De Miguel, R., García-Palomero, E., Fernández-Ruiz, J.J. and Ramos, J.A.
Time-course of the effects of anandamide, the putative endogenous cannabinoid receptor ligand, on extrapyramidal function (694) 223
Romero, L.M., Levine, S. and Sapolsky, R.M.
Adrenocorticotropin secretagog release: stimulation by frustration and paradoxically by reward presentation (676) 151
Romero-Ramos, M., see Venero, J.L. (672) 153
Romm, M.A., see Tracey, D.J. (669) 245
Romualdi, P., Lesa, G., Donatini, A. and Ferri, S.
Long-term exposure to opioid antagonists up-regulates prodynorphin gene expression in rat brain (672) 42
Rong, W., see Kanjhan, R. (699) 19
Rønn, L.C.B., Bock, E., Linnemann, D. and Jahnsen, H.
NCAM-antibodies modulate induction of long-term potentiation in rat hippocampal CA1 (677) 145
Roppolo, J.R., see Yoshiyama, M. (691) 185

Roscani, C., see Vagnetti, D. (705) 295
Rose, S.P.R., see Steele, R.J. (674) 352
Rößeler, L., see Reuss, S. (695) 257
Rosen, G.D., Waters, N.S., Galaburda, A.M. and Denenberg, V.H.
Behavioral consequences of neonatal injury of the neocortex (681) 177
Rosenberg, G.A., Estrada, E.Y., Dencoff, J.E. and Stetler-Stevenson, W.G.
Tumor necrosis factor-α-induced gelatinase B causes delayed opening of the blood-brain barrier: an expanded therapeutic window (703) 151
Rosenberg, P.A. and Li, Y.
Adenylyl cyclase activation underlies intracellular cyclic AMP accumulation, cyclic AMP transport, and extracellular adenosine accumulation evoked by β-adrenergic receptor stimulation in mixed cultures of neurons and astrocytes derived from rat cerebral cortex (692) 227
Rosenblatt, J.S., see Del Cerro, M.C.R. (696) 213
Rosenbluth, J., see Schiff, R. (686) 143
Rosendahl, M., see Martin, D. (683) 172
Rosenthal, A., see Schmalbruch, H. (700) 254
Rosenthal, R.E., see Hurt, K.J. (673) 226
Rosner, G., see Saito, R. (699) 109
Roßner, S., Schliebs, R. and Bigl, V.
192IgG-saporin-induced immunotoxic lesions of cholinergic basal forebrain system differentially affect glutamatergic and GABAergic markers in cortical rat brain regions (696) 165
Ross, C.D., see Thompson, G.C. (683) 140
Ross, D.T., Brasko, J. and Patrikios, P.
The AMPA antagonist NBQX protects thalamic reticular neurons from degeneration following cardiac arrest in rats (683) 117
Ross, D.T., see Brasko, J. (699) 133
Ross, R.J., Gresch, P.J., Ball, W.A., Sanford, L.D. and Morrison, A.R.
REM sleep inhibition by desipramine: evidence for an α-1 adrenergic mechanism (701) 129
Ross, W.N., see Kogan, A. (700) 235
Rossby, S.P., Nalepa, I., Huang, M., Perrin, C., Burt, A.M., Schmidt, D.E., Gillespie, D.D. and Sulser, F.
Norepinephrine-independent regulation of GRII mRNA in vivo by a tricyclic antidepressant (687) 79
Rossi, A. and Decchi, B.
Cutaneous nociceptive facilitation of Ib heteronymous pathways to lower limb motoneurones in humans (700) 164
Rossi, S., see Kristeva-Feige, R. (682) 22
Rossini, P.-M., see Kristeva-Feige, R. (682) 22
Rossini, P.M., Caramia, M.D., Iani, C., Desiato, M.T., Sciarretta, G. and Bernardi, G.
Magnetic transcranial stimulation in healthy humans: influence on the behavior of upper limb motor units (676) 314
Rostène, W., see Nicot, A. (702) 279
Roth, G.S., see Joseph, J.A. (673) 185
Roth, G.S., see Zhang, L. (677) 177
Roth, K.A., see Flaris, N.A. (678) 99
Roth, L.R. and Leung, L.S.
Difference in LTP at basal and apical dendrites of CA1 pyramidal neurons in urethane-anesthetized rats (694) 40
Roth, R.H., see Morrow, B.A. (673) 165
Rothblat, D.S. and Schneider, J.S.
Alterations in pallidal neuronal responses to peripheral sensory and striatal stimulation in symptomatic and recovered Parkinsonian cats (705) 1
Rothman, R.B., see Hirata, H. (677) 345
Rothwell, N.J., see Toulmond, S. (671) 261
Rouanet, J.L., see Montaron, A. (702) 49
Rouch, C., see Gerozissis, K. (689) 239
Rouch, C., see Orosco, M. (671) 149
Roudet, C., Giménez y Ribotta, M., Privat, A., Feuerstein, C. and Savasta, M.
Intraspinal noradrenergic-rich implants reverse the increase of α_1 adrenoceptors densities caused by complete spinal cord transection or selective chemical denervation: a quantitative autoradiographic study (677) 1
Roufail, E., Stringer, M. and Rees, S.
Nitric oxide synthase immunoreactivity and NADPH diaphorase staining are co-localised in neurons closely associated with the vasculature in rat and human retina (684) 36
Rougon, G., see Olive, S. (689) 271
Roush, R.T., see Hosie, A.M. (693) 257
Rousse, I., see Welner, S.A. (671) 309
Routtenberg, A., see Namgung, U. (689) 85
Rowland, N.E., Fregly, M.J. and Cimmerer, A.L.
Bradykinin-induced water intake and brain fos-like immunoreactivity in rats (669) 73
Rowland, N.E., Li, B.-H., Fregly, M.J. and Smith, G.C.
Fos induced in brain of spontaneously hypertensive rats by angiotensin II and co-localization with AT-1 receptors (675) 127
Rowland, N.E., see Xu, B. (698) 227
Rowlett, J.K., see Pierce, R.C. (688) 21
Roy-Byrne, P.P., see Decker, K.P. (691) 9
Roy, R.R., see Ishihara, A. (676) 212
Roy, S., see Rebello, S. (676) 141
Rozas, G., see Liste, I. (700) 1
Ruan, R.-S., Leong, S.-K. and Yeoh, K.-H.
The role of nitric oxide in facial motoneuronal death (698) 163
Rubel, E.W., see Hyson, R.L. (672) 196
Rubel, E.W., see Hyson, R.L. (677) 117
Ruben, G.C., Novak, M., Edwards, P.C. and Iqbal, K.
Alzheimer paired helical filaments, untreated and pronase digested, studied by vertical platinum-carbon replication and high resolution transmission electron microscopy (675) 1
Rubin, R.T., see Yasuda, R.P. (678) 161
Rubinstein, V.J., see Azmitia, E.C. (677) 181
Rudd, R.J., see Stone, W.S. (694) 133
Ruffin, M.-P., Caulliez, R. and Nicolaidis, S.
Parellel metabolic and feeding responses to lateral hypothalamic stimulation (700) 121
Ruggeri, F., see Toni, R. (682) 101
Ruggero, S., see Freo, U. (677) 213
Ruggiero, D.A., see Otake, K. (697) 17
Ruigrok, T.J.H., see Teune, T.M. (673) 313
Ruiz, F., see Barro, M. (672) 148
Ruiz-Gayo, M., see Vela, G. (680) 142
Rundfeldt, C., see Löscher, W. (697) 197
Rundfeldt, C., see Löscher, W. (702) 133
Rusak, B., see Edelstein, K. (675) 135
Rusiniak, K.W., see Lipinski, W.J. (692) 143
Ruskin, D.N. and Marshall, J.F.
D_1 dopamine receptors influence Fos immunoreactivity in the globus pallidus and subthalamic nucleus of intact and nigrostriatal-lesioned rats (703) 156
Russell, D.A., see Martin, D. (683) 172
Russell, D.C., see Collins, D.R. (684) 165
Russell, J.W., Windebank, A.J., McNiven, M.A., Brat, D.J. and Brimijoin, W.S.
Effect of cisplatin and $ACTH_{4-9}$ on neural transport in cisplatin induced neurotoxicity (676) 258
Russell, V., De Villiers, A., Sagvolden, T., Lamm, M. and Taljaard, J.
Altered dopaminergic function in the prefrontal cortex, nucleus accumbens and caudate-putamen of an animal model of Attention-Deficit Hyperactivity Disorder – the spontaneously hypertensive rat (676) 343
Rusyniak, D.E., see Bennett, B.A. (705) 168
Ruzzier, F., see Lorenzon, P. (703) 100
Rymer, W.Z., see Kuiken, T.A. (676) 113

S

Saavedra, J.M., see De Oliveira, A.M. (705) 177
Saavedra, J.M., see Heemskerk, F.M.J. (677) 29
Saavedra, J.M., see Jöhren, O. (702) 153
Saavedra, J.M., see Seltzer, A.M. (705) 24
Sabbadini, R., see Dettbarn, C. (669) 79
Sabol, M.K., see Brasko, J. (699) 133
Sacerdote, P., see Aloisi, A.M. (699) 242
Sadoshima, S., see He, Z. (699) 208
Sagen, J., see Hama, A.T. (687) 103
Sagen, J., see Siegan, J.B. (680) 88
Sagratella, S., see Diana, G. (686) 107
Sagvolden, T., see Russell, V. (676) 343
Sahu, A., see Phelps, C.P. (688) 193
Saido, T.C., see Bednarski, E. (694) 147
Saido, T.C., see Blomgren, K. (684) 136
Saido, T.C., see Blomgren, K. (684) 143
Saika, T., see Kitahara, T. (700) 182
Sainsbury, R.S., see Teskey, G.C. (672) 137
Saito, H., see Chu, P.-j. (673) 233
Saito, H., see Ikegaya, Y. (671) 351
Saito, H., see Saito, T. (697) 276
Saito, H., see Watanabe, Y. (688) 233

Saito, H., see Yamamoto, T. (677) 89
Saito, K., see Saito, T. (695) 240
Saito, R., Graf, R., Hübel, K., Taguchi, J., Rosner, G., Fujita, T. and Heiss, W.-D.
Halothane, but not α-chloralose, blocks potassium-evoked cortical spreading depression in cats (699) 109
Saito, S., Yoshikawa, D., Nishihara, F., Morita, T., Kitani, Y., Amaya, T. and Fujita, T.
The cerebral hemodynamic response to electrically induced seizures in man (673) 93
Saito, T., Itoh, T., Fujimura, M. and Saito, K.
Age-dependent and region-specific differences in the distribution of trace elements in 7 brain regions of Long-Evans Cinnamon (LEC) rats with hereditary abnormal copper metabolism (695) 240
Saito, T., Yamamoto, T., Zhang, Z.J., Yamada, T., Manabe, Y. and Saito, H.
Transplatin blocks voltage-dependent calcium current in isolated cochlear outer hair cells but is not ototoxic in vivo (697) 276
Saito, T., see Hatta, S. (704) 23
Saito, T., see Shimosato, K. (684) 243
Saito, T., see Yamamoto, T. (677) 89
Saito, Y., Yokota, T. and Yuasa, T.
Suppression of motor cortical excitability by magnetic stimulation of the cerebellum (694) 200
Saitoh, H., see Mori, N. (703) 184
Saitoh, H., see Tsunoda, K. (691) 18
Saji, M., Kimura, M., Ishida, G. and Ohno, K.
Deafferentation-induced c-*fos* gene expression in subthalamic nucleus and substantia nigra reticulata is reduced by non-NMDA receptor antagonist (703) 165
Sakai, K., see Hansen, J.T. (670) 197
Sakai, N., see Iwai, T. (671) 305
Sakai, N., see Ono, J. (671) 141
Sakamoto, M., see Wakabayashi, K. (705) 267
Sakata, Y., see Nakamori, T. (675) 103
Sakurada, S., see Tadano, T. (696) 21
Sakurai, K., see Ono, J. (671) 141
Salazar, B.C., Flash, D.O., Walewski, J.L. and Recio-Pinto, E.
Lidocaine has different effects and potencies on muscle and brain sodium channels (699) 305
Salehi, A., Van de Nes, J.A.P., Hofman, M.A., Gonatas, N.K. and Swaab, D.F.
Early cytoskeletal changes as shown by Alz-50 are not accompanied by decreased neuronal activity (678) 29
Salgado, D. and Alkadhi, K.A.
Inhibition of epileptiform activity by serotonin in rat CA1 neurons (669) 176
Salinas, J., see Cheung, S. (675) 83
Salm, A.K., see Lucas, R.L. (681) 218
Salord, F., see Lecharny, J.-B. (670) 308
Saltzman, W.M., see Krewson, C.E. (680) 196
Salviati, G., see Dettbarn, C. (669) 79
Samanin, R., see Cervo, L. (673) 242
Samanin, R., see Invernizzi, R. (670) 165
Samanin, R., see Invernizzi, R. (696) 62
Samanin, R., see Pozzi, L. (692) 265
Samanta, A., see Stieber, A. (700) 261
Samejima, K., see Yoneda, Y. (679) 15
Sams, J.M., Jansen, A.S.P., Mettenleiter, T.C. and Loewy, A.D.
Pseudorabies virus mutants as transneuronal markers (687) 182
Sanberg, P.R., see Arendash, G.W. (674) 252
Sanberg, P.R., see Borlongan, C.V. (676) 231
Sanberg, P.R., see Borlongan, C.V. (697) 254
Sanchez, I.O., see Trujillo, K.A. (698) 69
Sanchez-Watts, G., see Watts, A.G. (687) 63
Sancini, G., see Franceschetti, S. (696) 127
Sandberg, M., see Puka-Sundvall, M. (705) 65
Sanders-Bush, E., see Ike, J. (678) 49
Sanders, E.J., see Seyfarth, E.-A. (683) 93
Sanders, S.K., Morzorati, S.L. and Shekhar, A.
Priming of experimental anxiety by repeated subthreshold GABA blockade in the rat amygdala (699) 250
Sandner, G., see Silveira, M.C.L. (674) 265
Sanford, L.D., see Ross, R.J. (701) 129
San Juan, I., Alonso, J.M., Ovalle, S., Negro, A., Chinchetru, M.A. and Calvo, P.
Immunodetection of the large form of the γ_2 subunit of mammalian $GABA_A$ receptor (698) 209
Sano, M., Kohno, M. and Iwanaga, M.
The activation and nuclear translocation of extracellular signal-regulated kinases (ERK-1 and -2) appear not to be required for elongation of neurites in PC12D cells (688) 213
Sanovich, E., Bartus, R.T., Friden, P.M., Dean, R.L., Le, H.Q. and Brightman, M.W.
Pathway across blood–brain barrier opened by the bradykinin agonist, RMP-7 (705) 125
Santarella, B., see Vagnetti, D. (705) 295
Santarelli, M., Granato, A., Sbriccoli, A., Gobbi, G., Janiri, L. and Minciacchi, D.
Alterations of the thalamo-cortical system in rats prenatally exposed to ethanol are prevented by concurrent administration of acetyl-L-carnitine (698) 241
Santosa, D.N., see Sheu, M.-J. (675) 31
Sapolsky, R.M., see Romero, L.M. (676) 151
Sarda, N., see Giaume, M. (675) 121
Sargent, P.B. and Garrett, E.N.
The characterization of α-bungarotoxin receptors on the surface of parasympathetic neurons in the frog heart (680) 99
Sarne, Y., see Fields, A. (687) 94
Sarnyai, Z., Bíró, É., Gardi, J., Vecsernyés, M., Julesz, J. and Telegdy, G.
Brain corticotropin-releasing factor mediates 'anxiety-like' behavior induced by cocaine withdrawal in rats (675) 89
Sarrieau, A., see Chaouloff, F. (693) 169
Sasaki, K., see Gemba, H. (697) 143
Sasaki, M., see Onizuka, K. (697) 179
Sasaki, S.-I. and Uchino, H.
An electrophysiological demonstration of axonal projections of single ventral inspiratory neurons to the phrenic nucleus of the cat (701) 108
Saska, T.A., see Mohammed, J.R. (695) 100
Sassani, J.W., see Zagon, I.S. (671) 105
Sastry, B.R., see Xie, Z. (681) 193
Satabin, P., see Piérard, C. (693) 251
Sato, K., Crofton, J.T., Wang, Y.-X. and Share, L.
Effects of gender on the central actions of neuropeptide Y and norepinephrine on vasopressin and blood pressure in the rat (689) 71
Sato, K., Morimoto, K., Yamada, N., Kuroda, S. and Hayabara, T.
NBQX, a selective antagonist of the AMPA receptor, affects neither field potentials nor long-term potentiation in vivo (683) 279
Sato, K., see Ueda, H. (698) 213
Sato, M., see Mizuguchi, M. (697) 235
Sato, S., see Kato, I. (705) 109
Sato, T., Kamata, Y., Irifune, M. and Nishikawa, T.
Inhibition of purified (Na^+,K^+)-ATPase activity from porcine cerebral cortex by NO generating drugs (704) 117
Sato, Y., Wada, H., Horita, H., Suzuki, N., Shibuya, A., Adachi, H., Kato, R., Tsukamoto, T. and Kumamoto, Y.
Dopamine release in the medial preoptic area during male copulatory behavior in rats (692) 66
Satoh, F., see Mizuno, Y. (686) 115
Satoh, J.-i., Lee, Y.B. and Kim, S.U.
T-cell costimulatory molecules B7-1 (CD80) and B7-2 (CD86) are expressed in human microglia but not in astrocytes in culture (704) 92
Satoh, T., see Yamada, T. (674) 175
Satou, T., Cummings, B.J. and Cotman, C.W.
Immunoreactivity for Bcl-2 protein within neurons in the Alzheimer's disease brain increases with disease severity (697) 35
Sattelle, D.B., see Hosie, A.M. (693) 257
Sauerberg, P., see Periyasamy, S. (693) 118
Saulskaya, N. and Marsden, C.A.
Extracellular glutamate in the nucleus accumbens during a conditioned emotional response in the rat (698) 114
Savasta, M., see Roudet, C. (677) 1
Savelli, J.E., Chugh, A., Cheng, C., Mishra, R.K. and Johnson, R.L.
Modulation of *N*-methyl-D-aspartate (NMDA) antagonist-induced darting behaviour by the peptidomimetic PAMTA (682) 41
Savory, J., Huang, Y., Herman, M.M., Reyes, M.R. and Wills, M.R.
Tau immunoreactivity associated with aluminum maltolate-induced neurofibrillary degeneration in rabbits (669) 325
Sawada, M., Ichinose, M. and Hara, N.
Nitric oxide induces an increased Na^+ conductance in identified neurons of *Aplysia* (670) 248
Sawamoto, N., see Zhang, Y.-X. (691) 205
Sawamura, N., see Tamaoka, A. (679) 151
Sawashita, J., see Takeda, A. (695) 53
Sawchenko, P.E. and Pfeiffer, S.W.
Ultrastructural localization of inhibin β- and somatostatin-28-immunoreactivities in the

paraventricular and supraoptic nuclei (694) 233
Sawchuk, M.A., Hossain, M.Z., Hertzberg, E.L. and Nagy, J.I.
In situ transblot and immunocytochemical comparisons of astrocytic connexin-43 responses to NMDA and kainic acid in rat brain (683) 153
Sawyer, D., see McLarnon, J.G. (693) 8
Sawyer, D.C., McLarnon, J.G. and Church, J.
The effects of (−)- and (+)-β-cyclazocine on NMDA-evoked responses and NMDA-mediated cell damage in cultured rat hippocampal neurons (698) 30
Sawynok, J., see Golembiowska, K. (699) 315
Saxena, P.R., see Rebello, S. (676) 141
Sayin, U., Timmerman, W. and Westerink, B.H.C.
The significance of extracellular GABA in the substantia nigra of the rat during seizures and anticonvulsant treatments (669) 67
Sbriccoli, A., see Santarelli, M. (698) 241
Scalia, F., Grant, A.C., Reyes, M. and Lettvin, J.Y.
Functional properties of regenerated optic axons terminating in the primary olfactory cortex (685) 187
Scallet, A.C., see Schmued, L.C. (695) 64
Schaal, S., see Bitterman, N. (696) 250
Schafe, G.E., see Swank, M.W. (673) 251
Schäfer, S.S.
Changes in primary muscle spindle ending excitability induced by a ramp-and-hold stretch (705) 216
Schäfer, S.S.
Oscillations in the discharge frequency of cat primary muscle spindle afferents during the dynamic phase of a ramp-and-hold stretch (686) 61
Schaible, H.-G., see Hanesch, U. (700) 279
Schalk, S.L., see Blumberg, M.S. (699) 214
Scharmann, M.G., Klump, G.M. and Ehret, G.
Discrimination training in a GO/NOGO-procedure alters the 2-deoxyglucose pattern in the Starling's forebrain (682) 83
Schechter, R., Whitmire, J., Beju, D., Jackson, K.W., Harlow, R. and Gavin III, J.R.
An immunohistochemical and in situ hybridization study of insulin-like growth factor I within fetal neuron cell cultures (670) 1
Schenken, R.S., see Javors, M.A. (694) 49
Scherman, D., see Maloteaux, J.-M. (687) 155
Scheuer, K., see Müller, W.E. (674) 133
Schiff, R. and Rosenbluth, J.
Distribution of myelin lipid antigens in adult and developing rat spinal cord (686) 143
Schipper, H.M., see Prabhakar, S. (672) 159
Schliebs, R., see Roßner, S. (696) 165
Schlue, W.-R., see Hochstrate, P. (696) 231
Schmalbruch, H. and Rosenthal, A.
Neurotrophin-4/5 postpones the death of injured spinal motoneurons in newborn rats (700) 254
Schmid, W., see Blendy, J.A. (681) 8
Schmidt, B.J., see Song, L. (675) 165
Schmidt, C., see Härtig, W. (698) 265
Schmidt, D.E., see Rossby, S.P. (687) 79
Schmidt, E.D., see Mulders, W.H.A.M. (689) 61
Schmidt, R.E., see Ohara, S. (699) 143
Schmidt, R.E., see Ohara, S. (705) 325
Schmidt, R.E., see Stewart, G.R. (695) 81
Schmitt, M., see Godbout, R. (673) 157
Schmitt, W., see Block, F. (694) 308
Schmitz, D., Empson, R.M. and Heinemann, U.
Serotonin and 8-OH-DPAT reduce excitatory transmission in rat hippocampal area CA1 via reduction in presumed presynaptic Ca^{2+} entry (701) 249
Schmoll, D., Cesar, M., Führmann, E. and Hamprecht, B.
Colocalization of fructose-1,6-bisphosphatase and glial fibrillary acidic protein in rat brain (677) 341
Schmued, L.C., Scallet, A.C. and Slikker, Jr., W.
Domoic acid-induced neuronal degeneration in the primate forebrain revealed by degeneration specific histochemistry (695) 64
Schneider, C., see Singewald, N. (704) 42
Schneider, J.E., Finnerty, B.C., Swann, J.M. and Gabriel, J.M.
Glucoprivic treatments that induce anestrus, but do not affect food intake, increase FOS-like immunoreactivity in the area postrema and nucleus of the solitary tract in Syrian hamsters (698) 107
Schneider, J.S. and DiStefano, L.
Enhanced restoration of striatal dopamine concentrations by combined GM1 ganglioside and neurotrophic factor treatments (674) 260
Schneider, J.S., Lidsky, T.I., Hawks, T., Mazziotta, J.C. and Hoffman, J.M.
Differential recovery of volitional motor function, lateralized cognitive function, dopamine agonist-induced rotation and dopaminergic parameters in monkeys made hemi-parkinsonian by intracarotid MPTP infusion (672) 112
Schneider, J.S., see Lidsky, T.I. (686) 104
Schneider, J.S., see Rothblat, D.S. (705) 1
Schneiderman, N., see Green, E.J. (702) 145
Schneiderman, N., see McEchron, M.D. (682) 157
Schollmayer, A., see Reuss, S. (695) 257
Schor, N.F., Nylander, K.D., Constantine, T. and Schwartz, M.C.
G-protein expression during enediyne-induced neurite outgrowth in neuroblastoma (673) 175
Schrama, L.H., see Eggen, B.J.L. (690) 73
Schrama, L.H., see Versteeg, D.H.G. (686) 233
Schreiber, S.J., Megow, D., Raupach, A., Victorov, I.V. and Dirnagl, U.
Age-related changes of oxygen free radical production in the rat brain slice after hypoxia: on-line measurement using enhanced chemiluminescence (703) 227
Schröck, H., see Zeller, K. (698) 175
Schröder, H., see Becker, A. (688) 230
Schroeder, C.E., see Steinschneider, M. (674) 147
Schroeder, F., see Wood, W.G. (683) 36
Schuler, B., see Fadlallah, N. (675) 55
Schulz, M.W., see Nichol, K.A. (697) 1
Schumer, R.A., see Vickers, J.C. (680) 23
Schurr, A., Payne, R.S. and Rigor, B.M.
Synergism between diltiazem and MK-801 but not APV in protecting hippocampal slices against hypoxic damage (684) 233
Schurr, A., see Iyer, V.G. (689) 159
Schuster, D.I., Arnold, F.J. and Murphy, R.B.
Purification, pharmacological characterization and photoaffinity labeling of sigma receptors from rat and bovine brain (670) 14
Schütz, G., see Blendy, J.A. (681) 8
Schwab, M.E., see Bartholdi, D. (672) 177
Schwab, M.E., see Weibel, D. (679) 249
Schwartz, J.H., see Abe, M. (683) 200
Schwartz, M.C., see Schor, N.F. (673) 175
Schwartzkroin, P.A., see Owens Jr, J. (691) 223
Schwarz, M., see Block, F. (694) 308
Schweitzer, P., see Madamba, S.G. (685) 21
Schwippert, W.W. and Ewert, J.-P.
Effect of neuropeptide-Y on tectal field potentials in the toad (669) 150
Scialfa, J.H., see Cipolla-Neto, J. (691) 133
Sciarretta, G., see Rossini, P.M. (676) 314
Scollon, J.M., see Collins, D.R. (684) 165
Scott, B.W., see Frankland, P.W. (670) 97
Scott, J.J.A. and Panesar, G.
Small-signal sensitivity of muscle spindles reinnervated after long-term denervation (671) 325
Scott, J.J.A., Davies, P. and Petit, J.
The static sensitivity of tendon organs during recovery from nerve injury (697) 225
Scott, J.J.A., see Davies, P. (690) 82
Scotti de Carolis, A., see Diana, G. (686) 107
Scuvée-Moreau, J., see Seutin, V. (683) 275
Seagar, M.J., see Angaut-Petit, D. (681) 213
Secca, T., see Vagnetti, D. (705) 295
See, R.E., Lynch, A.M., Aravagiri, M., Nemeroff, C.B. and Owens, M.J.
Chronic haloperidol-induced changes in regional dopamine release and metabolism and neurotensin content in rats (704) 202
Seguel, M., see Sepúlveda, C. (674) 104
Seguin, S., see El Kafi, B. (686) 150
Seidel, B., Zuschratter, W., Wex, H., Garner, C.C. and Gundelfinger, E.D.
Spatial and sub-cellular localization of the membrane cytoskeleton-associated protein α-adducin in the rat brain (700) 13
Seidler, F.J., see Giannuzzi, C.E. (694) 271
Sekhon, L.H.S., Spence, I., Morgan, M.K. and Weber, N.C.
Chronic cerebral hypoperfusion in the rat: temporal delineation of effects and the in vitro ischemic threshold (704) 107
Sekiguchi, M., Nowakowski, R.S., Nagato, Y., Tanaka, O., Guo, H., Madoka, M. and Abe, H.

Morphological abnormalities in the hippocampus of the weaver mutant mouse (696) 262
Sellami, S. and De Beaurepaire, R.
Hypothalamic and thalamic sites of action of interleukin-1β on food intake, body temperature and pain sensitivity in the rat (694) 69
Seltzer, A.M., Zorad, S. and Saavedra, J.M.
Stimulation of angiotensin II AT_1 receptors in rat median eminence increases phosphoinositide hydrolysis (705) 24
Semba, K., see Stamp, J.A. (677) 39
Semotuk, M., see Cleary, J. (682) 69
Senba, E., see Takatsuji, K. (698) 53
Senda, T., see Matsuno, K. (690) 200
Sengelaub, D.R., see Wellman, C.L. (669) 48
Sengstock, G.J., see Arendash, G.W. (674) 252
Sepúlveda, C., Bustos, G., Gysling, K., Seguel, M. and Labarca, R.
Effects of in vitro ethanol and chronic ethanol consumption on the release of excitatory amino acids in the rat hippocampus (674) 104
Seraphim, P.M., see Cipolla-Neto, J. (691) 133
Sermet, E., see Giaume, M. (675) 121
Sernia, C., see Wyse, B. (681) 41
Seroogy, K.B., Gall, C.M., Lee, D.C. and Kornblum, H.I.
(670) 157
Sesack, S.R. and Pickel, V.M.
Ultrastructural relationships between terminals immunoreactive for enkephalin, GABA, or both transmitters in the rat ventral tegmental area (672) 261
Sesoko, S., Muratani, H., Takishita, S., Teruya, H., Kawazoe, N. and Fukiyama, K.
Modulation of baroreflex function by angiotensin II endogenous to the caudal ventrolateral medulla (671) 38
Sessler, F.M., Liu, W., Kirifides, M.L., Mouradian, R.D., Lin, R.C.-S. and Waterhouse, B.D.
Noradrenergic enhancement of GABA-induced input resistance changes in layer V regular spiking pyramidal neurons of rat somatosensory cortex (675) 171
Setsu, T., see Dong, K. (703) 231
Seutin, V., Scuvée-Moreau, J., Massotte, L. and Dresse, A.
Hydrogen peroxide hyperpolarizes rat CA1 pyramidal neurons by inducing an increase in potassium conductance. (683) 275
Sevila, I., see Martínez, M. (673) 149
Seybold, V.S., see Stevens, C.W. (687) 53
Seyfarth, E.-A., Sanders, E.J. and French, A.S.
Sodium channel distribution in a spider mechanosensory organ (683) 93
Seylaz, J., see Rigaud-Monnet, A.-S. (673) 297
Seylaz, J., see Vaucher, E. (691) 57
Shaffer, M.J., see Roberts, K.A. (682) 13
Shain, D.H., Haile, D.T., Verrastro, T.A. and Zuber, M.X.
Cloning and embryonic expression of *Xenopus laevis* GAP-43 (XGAP-43) (697) 241
Shank, R.P., see Mehta, A.K. (704) 289
Shankar, S.K., see Bhamre, S. (672) 276
Shanley, B., see Davidson, M. (674) 91
Shapiro, E., see Abe, M. (683) 200
Shapiro, L.A., Offord, S.J. and Ordway, G.A.
The effect of chronic treatment with a novel aryl-piperazine antipsychotic on monoamine receptors in rat brain (677) 250
Shapiro, L.S., see Halpern, M. (677) 157
Share, L., see Sato, K. (689) 71
Sharp, F.R., see Brown, L.L. (686) 207
Sharp, F.R., see Hisanaga, K. (684) 79
Sharp, J.W., Petersen, D.L. and Langford, M.T.
DNQX inhibits phencyclidine (PCP) and ketamine induction of the *hsp70* heat shock gene in the rat cingulate and retrosplenial cortex (687) 114
Sharp, P.J., see Georgiou, G.C. (700) 137
Sharp, P.J., see Lea, R.W. (700) 129
Shefchyk, S.J., see Song, L. (675) 165
Sheffield, R., see Yasuda, R.P. (678) 161
Shekhar, A., see Sanders, S.K. (699) 250
Shen, K.-F. and Crain, S.M.
Biphalin, an enkephalin analog with unexpectedly high antinociceptive potency and low dependence liability in vivo, selectively antagonizes excitatory opioid receptor functions of sensory neurons in culture (701) 158
Shen, K.-F. and Crain, S.M.
Specific N- or C-terminus modified dynorphin and β-endorphin peptides can selectively block excitatory opioid receptor functions in sensory neurons and unmask potent inhibitory effects of opioid agonists (673) 30
Shen, K.-F., see Crain, S.M. (694) 103
Shen, M.Y., see De Lanerolle, N.C. (686) 182
Shen, Y., Halperin, J.A. and Lee, C.-M.
Complement-mediated neurotoxicity is regulated by homologous restriction (671) 282
Shenoy, B.C., see Prabhakar, N.R. (697) 266
Shering, A.F., see Lowenstein, P.R. (676) 80
Shero, M., see Hashino, E. (704) 135
Shetty, A.K. and Turner, D.A.
Non-phosphorylated neurofilament protein immunoreactivity in adult and developing rat hippocampus: specificity and application in grafting studies (676) 293
Sheu, K.-F.R., see Calingasan, N.Y. (677) 50
Sheu, M.-J., Sribanditmongkol, P., Santosa, D.N. and Tejwani, G.A.
Inhibition of morphine tolerance and dependence by diazepam and its relation to cyclic AMP levels in discrete rat brain regions and spinal cord (675) 31
Shi, T.-J., see Zhang, Q. (705) 149
Shibasaki, T., Tsumori, C., Hotta, M., Imaki, T. and Demura, H.
Intracerebroventricular administration of neuropeptide Y inhibits release of noradrenaline in the hypothalamic paraventricular nucleus caused by manual restraint in the rat through an opioid system (688) 189
Shibasaki, T., Tsumori, C., Suzuki, M., Imaki, T., Yamada, K. and Demura, H.
The response pattern of noradrenaline release to repeated stress in the hypothalamic paraventricular nucleus differs according to the form of stress in rats (670) 169
Shibata, K., Komatsu, C., Misumi, Y. and Furukawa, T.
Dexamethasone down-regulates the expression of endothelin B receptor mRNA in the rat brain (692) 71
Shibata, S., Shindou, T., Tominaga, K. and Watanabe, S.
Calcium channel blockers improve hypoxia/hypoglycemia-induced impairment of rat hippocampal 2-deoxyglucose uptake in vitro after ethanol withdrawal (673) 320
Shibata, S., Yamamoto, Y. and Watanabe, S.
A role of sigma receptors on hypoxia/hypoglycemia-induced decrease in CA1 presynaptic fiber spikes in rat hippocampal slices (670) 337
Shibata, S., see Inoue, H. (671) 95
Shibata, S., see Nishikawa, Y. (695) 158
Shibata, S., see Watanabe, A. (695) 237
Shibuya, A., see Sato, Y. (692) 66
Shibuya, T., see Hara, S. (675) 190
Shigemoto, R., see Ding, Y.-Q. (674) 336
Shiho, O., see Tojo, H. (669) 163
Shimada, H., Shimizu, T., Kuwayama, H., Suzuki, M., Nagai, R. and Morii, H.
Immunocytochemical localization of 155 kDa myosin light chain kinase and myosin heavy chain in bovine brain (682) 212
Shimada, Y., see Matsuda, H. (686) 111
Shimizu, K., see Watanabe, M. (670) 173
Shimizu, N., see Lee, R.-S. (687) 1
Shimizu, N., see Lee, R.-S. (687) 12
Shimizu-Nishikawa, K., see Kajiwara, K. (671) 170
Shimizu, T., Yoshimura, M., Baba, H., Shimoji, K. and Higashi, H.
Role of Aδ afferent fibers in modulation of primary afferent input to the adult rat spinal cord (691) 92
Shimizu, T., see Shimada, H. (682) 212
Shimohama, S., Fujimoto, S., Chachin, M., Taniguchi, T., Perry, G., Whitehouse, P.J. and Kimura, J.
Alterations of low molecular weight acid phosphatase protein level in Alzheimer's disease (699) 125
Shimohama, S., Perry, G., Richey, P., Praprotnik, D., Takenawa, T., Fukami, K., Whitehouse, P.J. and Kimura, J.
Characterization of the association of phospholipase C-δ with Alzheimer neurofibrillary tangles (669) 217
Shimoji, K., see Shimizu, T. (691) 92
Shimosato, K., Watanabe, S., Marley, R.J. and Saito, T.
Increased polyamine levels and changes in the sensitivity to convulsions during chronic treatment with cocaine in mice (684) 243
Shimura, T., Suzuki, M. and Yamamoto, T.
Aversive taste stimuli facilitate extracellular acetylcholine release in the insular gustatory cortex of the rat: a microdialysis study (679) 221
Shindler, K.S., see Flaris, N.A. (678) 99
Shindou, T., see Shibata, S. (673) 320

Shine, H.D., see Çolak, A. (691) 76
Shinkai, M., see Kuroda, M. (677) 348
Shinkai, N., see Ukai, M. (673) 335
Shinnick-Gallagher, P., see Arvanov, V.L. (669) 140
Shino, A., see Tojo, H. (669) 163
Shinoda, M., Hudson, J.L., Strömberg, I., Hoffer, B.J., Moorhead, J.W. and Olson, L.
Allogeneic grafts of fetal dopamine neurons: immunological reactions following active and adoptive immunizations (680) 180
Shinoda, M., see Ishikawa, K. (677) 20
Shirahata, A., see Yoneda, Y. (679) 15
Shirahata, M., see Gatti, P.J. (693) 133
Shirai, Y., see Hosie, A.M. (693) 257
Shiroyama, T., Kayahara, T., Yasui, Y., Nomura, J. and Nakano, K.
The vestibular nuclei of the rat project to the lateral part of the thalamic parafascicular nucleus (centromedian nucleus in primates) (704) 130
Shohami, E., Novikov, M. and Bass, R.
Long-term effect of HU-211, a novel noncompetitive NMDA antagonist, on motor and memory functions after closed head injury in the rat (674) 55
Shohami, E., see Nadler, V. (685) 1
Shoji-Kasai, Y., see Angaut-Petit, D. (681) 213
Shoji, M., see Iizuka, T. (702) 275
Shoji, S., see Tamaoka, A. (679) 151
Shuaib, A., Mahmood, R.H., Wishart, T., Kanthan, R., Murabit, M.A., Ijaz, S., Miyashita, H. and Howlett, W.
Neuroprotective effects of lamotrigine in global ischemia in gerbils. A histological, in vivo microdialysis and behavioral study (702) 199
Shul, D.D., see Ang, L.-C. (674) 329
Shultz, P.L., Tonkiss, J., Morgane, P.J., Bronzino, J.D. and Galler, J.R.
Effects of an every other day rapid kindling procedure in prenatally protein malnourished rats (682) 35
Shuster, L., see Buccafusco, J.J. (679) 189
Shuto, M., see Yoneda, Y. (679) 15
Siegan, J.B. and Sagen, J.
Attenuation of NMDA-induced spinal hypersensitivity by adrenal medullary transplants (680) 88
Siegan, J.B., see Hama, A.T. (687) 103
Sierra, F., Lorenzo, D., Macadar, O. and Buño, W.
N-type Ca^{2+} channels mediate transmitter release at the electromotoneuron-electrocyte synapses of the weakly electric fish *Gymnotus carapo* (683) 215
Siesjö, B.K., see Memezawa, H. (670) 48
Siesjö, B.K., see OuYang, Y.-B. (676) 307
Sigala, G., see Attwell, P.J.E. (698) 155
Siggins, G.R., see Madamba, S.G. (685) 21
Silberg, J., see Arai, A. (704) 298
Silveira, M.C.L., Sandner, G., Di Scala, G. and Graeff, F.G.
C-*fos* immunoreactivity in the brain following electrical or chemical stimulation of the medial hypothalamus of freely moving rats (674) 265
Silverman, A.-J., see Sullivan, K.A. (685) 198
Simmons, L.K., see Li, W.Y. (682) 207
Simon, H., see Haney, M. (698) 46
Simon, R.P., see Chen, J. (699) 121
Simon, T.W. and Derby, C.D.
Mixture suppression without inhibition for binary mixtures from whole cell patch clamp studies of in situ olfactory receptor neurons of the spiny lobster (678) 213
Simonnet, G., see Devillers, J.-P. (700) 173
Simonson, M.S., see Prabhakar, N.R. (697) 266
Singewald, N., Zhou, G.-Y. and Schneider, C.
Release of excitatory and inhibitory amino acids from the locus coeruleus of conscious rats by cardiovascular stimuli and various forms of acute stress (704) 42
Sircar, R.
Repeated postnatal phencyclidine administration in female juvenile rat delays onset of puberty but has no effect on pentylenetetrazol-induced seizure-susceptibility (694) 318
Sisk, C.L. and DonCarlos, L.L.
Estrogen receptor immunoreactivity in ferret brain is regulated by estradiol in a region-specific manner (688) 198
Sivam, S.P.
GBR-12909-induced self-injurious behavior: role of dopamine (690) 259
Skarlatos, S., Yoshikawa, T. and Pardridge, W.M.
Transport of [^{125}I]transferrin through the rat blood–brain barrier (683) 164
Skene, D.J., see Hofman, M.A. (671) 254
Sklair-Tavron, L. and Nestler, E.J.
Opposing effects of morphine and the neurotrophins, NT-3, NT-4, and BDNF, on locus coeruleus neurons in vitro (702) 117
Skrebitski, V.G., see Chepkova, A.N. (701) 255
Sladek, C.D., see Ghosh, R. (672) 24
Sladek Jr., J.R., see Steece-Collier, K. (676) 404
Sławińska, U. and Kasicki, S.
Theta-like rhythm in depth EEG activity of hypothalamic areas during spontaneous or electrically induced locomotion in the rat (678) 117
Slikker, Jr., W., see Schmued, L.C. (695) 64
Slikker Jr., W., see Bowyer, J.F. (699) 62
Slotkin, T.A., see Giannuzzi, C.E. (694) 271
Sloviter, R.S., Sollas, A.L. and Neubort, S.
Hippocampal dentate granule cell degeneration after adrenalectomy in the rat is not reversed by dexamethasone (682) 227
Sluyter, F., see Hensbroek, R.A. (682) 203
Smallridge, R.C., see Clapp, L.E. (693) 101
Smith, D.H., see Hicks, R.R. (678) 151
Smith, D.W. and Day, T.A.
Hypovolaemic and osmotic stimuli induce distinct patterns of c-Fos expression in the rat subfornical organ (698) 232
Smith, G.C., see Rowland, N.E. (675) 127
Smith, J.A., Mo, Q., Guo, H., Kunko, P.M. and Robinson, S.E.
Cocaine increases extraneuronal levels of aspartate and glutamate in the nucleus accumbens (683) 264
Smith, J.E., see Dworkin, S.I. (682) 116
Smith, K.G. and Robinson, P.P.
The effect of delayed nerve repair on the properties of regenerated fibres in the chorda tympani (691) 142
Smith, K.L., see Lee, C.L. (677) 97
Smith, M.-L., see Memezawa, H. (670) 48
Smith, M.A., see Akbarian, S. (699) 297
Smith, M.A., see Castellani, R. (696) 268
Smith, M.S., see Abbud, R. (690) 117
Smith, R.G., see Le, W.-D. (686) 49
Smith, R.S. and Snyder, R.E.
Anterograde to retrograde reversal of fast axonal transport within cold blocked and rewarmed intact axons (672) 205
Smith, S.S., see Lee, R.-S. (687) 1
Smith, S.S., see Lee, R.-S. (687) 12
Smith-Thomas, L.C., see Fok-Seang, J. (689) 207
Smithson, I.L., see Benarroch, E.E. (684) 215
Smithson, K.G., see Yang, Q.Z. (680) 207
Snyder, R.E., see Smith, R.S. (672) 205
Socci, D.J., Crandall, B.M. and Arendash, G.W.
Chronic antioxidant treatment improves the cognitive performance of aged rats (693) 88
Sohma, O., see Miyawaki, T. (700) 285
Soinila, S., see Vanhatalo, S. (669) 275
Soinila, S., see Vanhatalo, S. (687) 205
Sojka, M., Davies, H.A., Harrison, E. and Stewart, M.G.
Long-term increases in synaptic density in chick CNS after passive avoidance training are blocked by an inhibitor of protein synthesis (684) 209
Sokoloff, G., see Blumberg, M.S. (699) 214
Sokoloff, L., see Takahashi, S. (678) 21
Sokolov, M.V. and Kleschevnikov, A.M.
Atropine suppresses associative LTP in the CA1 region of rat hippocampal slices (672) 281
Sollars, P.J., see Pickard, G.E. (705) 255
Sollas, A.L., see Sloviter, R.S. (682) 227
Solomon, I.C., see Motekaitis, A.M. (671) 314
Solomonia, R.O., see Van der Zee, E.A. (676) 41
Solsona, C., see Herreros, J. (699) 165
Soltysiak, Z., see Wegiel, J. (705) 225
Sombati, S., see Limbrick Jr., D.D. (690) 145
Somjen, G.G., see Chebabo, S.R. (695) 203
Somjen, G.G., see Huang, R. (695) 195
Somjen, G.G., see Huang, R. (702) 181
Somjen, G.G., see Vreugdenhil, M. (670) 89
Somogyvári-Vigh, A., see Palkovits, M. (699) 116
Sone, M., see Mizuno, Y. (686) 115
Song, K., see MacGregor, D.P. (675) 231
Song, L., Schmidt, B.J. and Shefchyk, S.J.
Pelvic and pudendal reflexes in the in vitro neonatal rat preparation (675) 165
Sood, V.K., see Gitler, M.S. (687) 71
Sood, V.K., see Gitler, M.S. (704) 151
Soós, K., see Harkany, T. (695) 71

Soós, K., see Harkany, T. (698) 270
Sorci, G., Spreca, A., Donato, R. and Rambotti, M.G.
Detection of membrane-bound guanylate cyclase activity in rat C6 glioma cells at different growth states following activation by natriuretic peptides (683) 51
Soriano, E., see Fonseca, M. (691) 83
Soriano, M.A., Ferrer, I., Rodríguez-Farré, E. and Planas, A.M.
Expression of c-*fos* and inducible hsp-70 mRNA following a transient episode of focal ischemia that had non-lethal effects on the rat brain (670) 317
Soriano, M.A., see Ferrer, I. (692) 41
Sorimachi, M., Furukawa, K., Abe, Y. and Akaike, N.
Muscarinic receptor agonist-induced increases in cytosolic Ca^{2+} concentrations in chick ciliary ganglion cells (696) 67
Sorimachi, M.
Pharmacology of nicotine-induced increase in cytosolic Ca^{2+} concentrations in chick embryo ciliary ganglion cells (669) 26
Sosnowski, J.S., Gupta, M., Reid, K.H. and Roisen, F.J.
Chemical traumatization of adult mouse olfactory epithelium in situ stimulates growth and differentiation of olfactory neurons in vitro (702) 37
Soucy, J.-P., see Mrini, A. (669) 303
Soulard, P., see Lockhart, B.P. (675) 110
Soulier, V., Dalmaz, Y., Cottet-Emard, J.M., Kitahama, K. and Pequignot, J.M.
Delayed increase of tyrosine hydroxylation in the rat A2 medullary neurons upon long-term hypoxia (674) 188
Soumireu-Mourat, B., see Talmi, M. (704) 97
South, D.A. and Weinberger, N.M.
A comparison of tone-evoked response properties of 'cluster' recordings and their constituent single cells in the auditory cortex (704) 275
Spampinato, U., see Bonhomme, N. (675) 215
Spangenberger, A.G., see Palm, D.E. (691) 1
Spatz, M., Stanimirovic, D., Strasser, A. and McCarron, R.M.
Nitro-L-arginine augments the endothelin-1 content of cerebrospinal fluid induced by cerebral ischemia (684) 99
Specht, C.D., see Campbell, K.A. (702) 110
Speck, D.F., see Karius, D.R. (682) 235
Speckmann, E.-J., see Lücke, A. (671) 222
Speight, G.J., see Kahn, M.A. (685) 55
Spence, I., see Sekhon, L.H.S. (704) 107
Spencer, D.D., see Biegel, D. (692) 183
Spencer, D.D., see De Lanerolle, N.C. (686) 182
Spessert, R., Hill, G. and Vollrath, L.
In rat pinealocytes the cyclic GMP response to NO is regulated by Ca^{2+} and protein kinase C (694) 207
Spessert, R., see Reuss, S. (695) 257
Spierenburg, H.A., see Versteeg, D.H.G. (686) 233
Spigelman, I., see Gordey, M. (691) 125
Spreca, A., see Sorci, G. (683) 51
Sribanditmongkol, P., see Sheu, M.-J. (675) 31
Srinivasan, S. and Karr, T.L.
Biochemical characterization of related microtubule proteins in *Drosophila melanogaster* and adult rat brain (701) 39
Srinivasan, S., see Alcantara, A.A. (701) 47
St-Pierre, S., see Garcia de Yebenes, E. (674) 112
Staak, S., Behnisch, T. and Angenstein, F.
Hippocampal long-term potentiation: transient increase but no persistent translocation of protein kinase C isoenzymes α and β (682) 55
Stackman, R.W., see Janis, L.S. (679) 99
Stackman, R.W., see Walsh, T.J. (702) 233
Staines, W.A., see Agnati, L.F. (676) 10
Staines, W.R., see Cheng, J. (672) 89
Staines, W.R., see Cheng, J. (681) 197
Staines, W.R., see Misiaszek, J.E. (677) 69
Stamatovic, B., see Prinssen, E.P.M. (673) 283
Stamp, J.A. and Semba, K.
Extent of colocalization of serotonin and GABA in the neurons of the rat raphe nuclei (677) 39
Stanimirovic, D., see Spatz, M. (684) 99
Stanton, P.K., see Hedberg, T.G. (670) 181
Stanton, P.K., see Velíšek, L. (671) 245
Starr, M.S., see Biggs, C.S. (684) 172
Steece-Collier, K., Yurek, D.M., Collier, T.J., Junn, F.S. and Sladek Jr., J.R.
The detrimental effect of levodopa on behavioral efficacy of fetal dopamine neuron grafts in rats is reversible following prolonged withdrawal of chronic dosing (676) 404
Steel, D.J., see Abe, M. (683) 200
Steele, R.J., Stewart, M.G. and Rose, S.P.R.
Increases in NMDA receptor binding are specifically related to memory formation for a passive avoidance task in the chick: a quantitative autoradiographic study (674) 352
Stefano, G.B., see Dobrenis, K. (686) 239
Steffensen, S.C., see Mayer, J.H. (686) 134
Stein, D.G., see Janis, L.S. (679) 99
Stein, E.A., see Vanderschuren, L.J.M.J. (680) 148
Steinberg, J., see Mialon, P. (676) 352
Steinschneider, M., Reser, D., Schroeder, C.E. and Arezzo, J.C.
Tonotopic organization of responses reflecting stop consonant place of articulation in primary auditory cortex (A1) of the monkey (674) 147
Stell, W.K., see Rohrer, B. (686) 169
Stell, W.K., see Rohrer, B. (695) 110
Stelz, T., see Jones, N. (697) 216
Stenfors, C., Bjellerup, P., Mathé, A.A. and Theodorsson, E.
Concurrent analysis of neuropeptides and biogenic amines in brain tissue of rats treated with electroconvulsive stimuli (698) 39
Stenfors, C., see Bileviciute, I. (704) 71
Stephans, S.E. and Yamamoto, B.K.
Effect of repeated methamphetamine administrations on dopamine and glutamate efflux in rat prefrontal cortex (700) 99
Stephens Jr., R.L., see Mohammed, J.R. (695) 100
Sterling, R.J., see Lea, R.W. (700) 129
Stetler-Stevenson, W.G., see Rosenberg, G.A. (703) 151
Stevens, C.W. and Seybold, V.S.
Changes of opioid binding density in the rat spinal cord following unilateral dorsal rhizotomy (687) 53
Steward, O., see Bonthius, D.J. (674) 314
Stewart, G.R., Olney, J.W., Schmidt, R.E. and Wozniak, D.F.
Mineralization of the globus pallidus following excitotoxic lesions of the basal forebrain (695) 81
Stewart, G.R., see Emmett, C.J. (673) 199
Stewart, J., see Badiani, A. (670) 264
Stewart, J., see Badiani, A. (690) 112
Stewart, M.G., see Horner, C.H. (703) 245
Stewart, M.G., see Sojka, M. (684) 209
Stewart, M.G., see Steele, R.J. (674) 352
Stichel, C.C., Kappler, J., Junghans, U., Koops, A., Kresse, H. and Müller, H.W.
Differential expression of the small chondroitin/dermatan sulfate proteoglycans decorin and biglycan after injury of the adult rat brain (704) 263
Stieber, A., Chen, Y., Gonatas, J., Dougall, W., Qian, X., O'Rourke, D., Samanta, A., Greene, M.I. and Gonatas, N.K.
Identification of a 140 kDa protein of rat presynaptic terminal membranes encompassing the active zones (700) 261
Stigbrand, T., see Yang, Q. (696) 49
Stiller, C.-O., Linderoth, B., O'Connor, W.T., Franck, J., Falkenberg, T., Ungerstedt, U. and Brodin, E.
Repeated spinal cord stimulation decreases the extracellular level of γ-aminobutyric acid in the periaqueductal gray matter of freely moving rats (699) 231
Stiller, R.U., see Hanesch, U. (700) 279
Stinus, L., see Bonhomme, N. (675) 215
Stirpe, F., see Cevolani, D. (689) 163
Stitt, S., see Traub, R.J. (701) 175
Stocker-Buschina, S., see Merten, M.D.P. (671) 317
Stockmeier, C.A., see Sumiyoshi, T. (681) 109
Stoessl, A.J., Brackstone, M., Rajakumar, N. and Gibson, C.J.
Pharmacological characterization of grooming induced by a selective NK-1 tachykinin receptor agonist (700) 115
Stone, E.A. and Zhang, Y.
Adrenoceptor antagonists block c-fos response to stress in the mouse brain (694) 279
Stone, T.W., see Akhondzadeh, S. (677) 311
Stone, W.S., Rudd, R.J. and Gold, P.E.
Glucose attenuation of atropine-induced deficits in paradoxical sleep and memory (694) 133
Stonestreet, B.S., see Lee, C. (689) 233
Storm-Mathisen, J., see Maxwell, D.J. (676) 103
Stornetta, R.L., see Baraban, S.C. (676) 245
Strafaci, J.A., see Azmitia, E.C. (677) 181

Strain-Saloum, C., see Roberts, R.C. (701) 227
Strasser, A., see Spatz, M. (684) 99
Strasser, U. and Fischer, G.
Protection from neuronal damage induced by combined oxygen and glucose deprivation in organotypic hippocampal cultures by glutamate receptor antagonists (687) 167
Straub, H., see Lücke, A. (671) 222
Stringer, M., see Roufail, E. (684) 36
Strocchi, P., see Cevolani, D. (689) 163
Stroh, T. and Zupanc, G.K.H.
Somatostatin in the prepacemaker nucleus of weakly electric fish, *Apteronotus leptorhynchus*: evidence for a nonsynaptic function (674) 1
Strömberg, I., see Shinoda, M. (680) 180
Struckhoff, G. and Turzynski, A.
Demonstration of parathyroid hormone-related protein in meninges and its receptor in astrocytes: evidence for a paracrine meningo-astrocytic loop (676) 1
Stuenkel, E.L., see Giovannucci, D.R. (702) 246
Stull, N.D., see Du, X. (680) 229
Sturman, J.A., see Lu, P. (681) 235
Stys, P.K., see Lehning, E.J. (694) 158
Su, H., see Quirk, G.J. (670) 277
Su, M., see Wakabayashi, K. (705) 267
Suarez, S.S., see Webb, B. (701) 61
Sugaya, A., see Kajiwara, K. (671) 170
Sugaya, E., see Kajiwara, K. (671) 170
Sugihara, H., see Okada, K. (699) 33
Sugimoto, T., see Ichikawa, H. (679) 205
Sugimoto, T., see Ikeda, M. (690) 225
Sugimoto, T., see Nakagawa, H. (690) 236
Sugioka, K., see Dong, K. (703) 231
Sugiyama, K., see Chudler, E.H. (674) 33
Suh, Y.-H., see Chong, Y.-H. (670) 137
Sullivan, K.A., Witkin, J.W., Ferin, M. and Silverman, A.-J.
Gonadotropin-releasing hormone neurons in the rhesus macaque are not immunoreactive for the estrogen receptor (685) 198
Sulser, F., see Rossby, S.P. (687) 79
Sumino, R., see Iwata, K. (678) 127
Sumiyoshi, T., Stockmeier, C.A., Overholser, J.C., Thompson, P.A. and Meltzer, H.Y.
Dopamine D_4 receptors and effects of guanine nucleotides on [^{3}H]raclopride binding in postmortem caudate nucleus of subjects with schizophrenia or major depression (681) 109
Sun, F.-Y. and Faden, A.I.
Neuroprotective effects of 619C89, a use-dependent sodium channel blocker, in rat traumatic brain injury (673) 133
Sun, F.-Y. and Faden, A.I.
Pretreatment with antisense oligodeoxynucleotides directed against the NMDA-R1 receptor enhances survival and behavioral recovery following traumatic brain injury in rats (693) 163
Sun, V., see Bronstein, D.M. (704) 112
Sunanda, , Rao, M.S. and Raju, T.R.
Effect of chronic restraint stress on dendritic spines and excrescences of hippocampal CA3 pyramidal neurons—a quantitative study (694) 312
Sundaresan, S., see De Lanerolle, N.C. (686) 182
Sunderland, T., see Luo, Y.Q. (681) 65
Sundgren, A.K., see Johansson, S. (700) 240
Sundler, F., see Zhang, Q. (705) 149
Supowit, S.C., Christensen, M.D., Westlund, K.N., Hallman, D.M. and DiPette, D.J.
Dexamethasone and activators of the protein kinase A and C signal transduction pathways regulate neuronal calcitonin gene-related peptide expression and release (686) 77
Suzuki, K., see Mori, N. (703) 184
Suzuki, K., see Yamada, H. (681) 97
Suzuki, M., see Shibasaki, T. (670) 169
Suzuki, M., see Shimada, H. (682) 212
Suzuki, M., see Shimura, T. (679) 221
Suzuki, M., see Yamaguchi, T. (669) 107
Suzuki, N., see Okada, K. (699) 33
Suzuki, N., see Sato, Y. (692) 66
Suzuki, N., see Tamaoka, A. (679) 151
Suzuki, T., Takamori, K., Misawa, M. and Onodera, K.
Effects of the histaminergic system on the morphine-induced conditioned place preference in mice (675) 195
Suzuki, Y., see Miyawaki, T. (700) 285
Svec, F., see Prasad, C. (699) 149
Svingos, A.L., Cheng, P.Y., Clarke, C.L. and Pickel, V.M.
Ultrastructural localization of δ-opioid receptor and Met^5-enkephalin immunoreactivity in rat insular cortex (700) 25
Swaab, D.F., see Guldenaar, S.E.F. (700) 107
Swaab, D.F., see Hofman, M.A. (671) 254
Swaab, D.F., see Lucassen, P.J. (693) 261
Swaab, D.F., see Salehi, A. (678) 29
Swaab, D.F., see Zhou, J.-N. (672) 285
Swank, M.W., Schafe, G.E. and Bernstein, I.L.
c-Fos induction in response to taste stimuli previously paired with amphetamine or LiCl during taste aversion learning (673) 251
Swann, J.M., see Schneider, J.E. (698) 107
Swann, J.W., see Lee, C.L. (677) 97
Swanson, J.J., see Iqbal, J. (703) 1
Swartz, H.M., see Liu, K.J. (685) 91
Swartzwelder, H.S., see Brucato, F.H. (677) 326
Swerdlow, N.R., see Kodsi, M.H. (684) 26
Szabo, B., see Cassel, J.-C. (704) 153
Szallasi, A., Nilsson, S., Farkas-Szallasi, T., Blumberg, P.M., Hökfelt, T. and Lundberg, J.M.
Vanilloid (capsaicin) receptors in the rat: distribution in the brain, regional differences in the spinal cord, axonal transport to the periphery, and depletion by systemic vanilloid treatment (703) 175
Sziráki, I., Rauhala, P. and Chiueh, C.C.
Novel protective effect of manganese against ferrous citrate-induced lipid peroxidation and nigrostriatal neurodegeneration in vivo (698) 285
Szymusiak, R., see Alam, Md.N. (696) 221

T

Taché, Y., see Kaneko, H. (699) 97
Taché, Y., see Okumura, T. (674) 137
Tadano, T., Asao, T., Aizawa, T., Sakurada, S., Abe, Y., Yonezawa, A., Ando, R., Arai, Y., Kinemuchi, H. and Kisara, K.
Immunohistochemical determination of rat spinal cord substance P, and antinociceptive effect during development of thiamine deficiency (696) 21
Tagashira, E., see Nakagawa, Y. (681) 126
Tagashira, E., see Nakagawa, Y. (683) 209
Taguchi, J., see Saito, R. (699) 109
Tai, H.-H., see Pettigrew, L.C. (691) 243
Tai, T., see Kotani, M. (700) 40
Taiwo, Y.O., see Matos, F.F. (693) 187
Takada, M., see Ding, Y.-Q. (674) 336
Takada, M., see Tokuno, H. (703) 217
Takagi, K., Zhao, W., Busto, R. and Ginsberg, M.D.
Local hemodynamic changes during transient middle cerebral artery occlusion and recirculation in the rat: a [^{14}C]iodoantipyrine autoradiographic study (691) 160
Takahashi, A., see Ishimaru, H. (673) 112
Takahashi, K., see Mizuno, Y. (686) 115
Takahashi, M., Liou, S.-Y. and Kunihara, M.
Ca^{2+}- and Cl^--dependent, NMDA receptor-mediated neuronal death induced by depolarization in rat hippocampal organotypic cultures (675) 249
Takahashi, M., see Akaneya, Y. (704) 175
Takahashi, M., see Angaut-Petit, D. (681) 213
Takahashi, M., see Nishimura, F. (691) 217
Takahashi, M., see Ono, J. (671) 141
Takahashi, S., Cook, M., Jehle, J., Kennedy, C. and Sokoloff, L.
Preservation of autoregulatory cerebral vasodilator responses to hypotension after inhibition of nitric oxide synthesis (678) 21
Takahashi, S., Kapás, L., Fang, J. and Krueger, J.M.
An anti-tumor necrosis factor antibody suppresses sleep in rats and rabbits (690) 241
Takahata, N., see Tsuzuki, K. (699) 260
Takaichi, S., see Fukuda, S.-i. (696) 30
Takamaru, Y., see Tsuzuki, K. (699) 260
Takami, K., see Tojo, H. (669) 163
Takamori, K., see Suzuki, T. (675) 195
Takamura, M., see Ohki, K. (696) 140
Takao, T., Tojo, C., Nishioka, T., Hashimoto, K. and De Souza, E.B.
Corticotropin-releasing factor treatment upregulates interleukin-1 receptors in the mouse pituitary: reversal by dexamethasone (688) 219
Takase, S., see Mizuno, Y. (686) 115
Takashima, S., see Miyawaki, T. (700) 285
Takata, T. and Okada, Y.
Effects of deprivation of oxygen or glucose on the neural activity in the guinea pig

hippocampal slice—intracellular recording study of pyramidal neurons (683) 109
Takatsuji, K., Senba, E., Mantyh, P.W. and Tohyama, M.
A relationship between substance P receptor and retinal fibers in the rat suprachiasmatic nucleus (698) 53
Takeda, A., Sawashita, J. and Okada, S.
Biological half-lives of zinc and manganese in rat brain (695) 53
Takeda, H., see Kobari, M. (698) 95
Takeda, N., see Kitahara, T. (700) 182
Takeda, T., see Umezawa, M. (669) 225
Takenaka, T., see Kawakami, T. (683) 88
Takenawa, T., see Shimohama, S. (669) 217
Takishima, K., see Watanabe, M. (670) 173
Takishita, S., see Sesoko, S. (671) 38
Takita, M. and Muramatsu, I.
Alteration of brain nicotinic receptors induced by immobilization stress and nicotine in rats (681) 190
Taljaard, J., see Russell, V. (676) 343
Talman, W.T. and Nitschke Dragon, D.
Inhibition of nitric oxide synthesis extends cerebrovascular autoregulation during hypertension (672) 48
Talman, W.T., see Colombari, E. (677) 110
Talmi, M., Carlier, E., Bengelloun, W. and Soumireu-Mourat, B.
Synergistic action of corticosterone on kainic acid-induced electrophysiological alterations in the hippocampus (704) 97
Tamaoka, A., Sawamura, N., Odaka, A., Suzuki, N., Mizusawa, H., Shoji, S. and Mori, H.
Amyloid β protein 1–42/43 (Aβ 1–42/43) in cerebellar diffuse plaques: enzyme-linked immunosorbent assay and immunocytochemical study (679) 151
Tamayo, F., see Neafsey, E.J. (675) 279
Tamm, E.R., see Kirch, W. (681) 229
Tamura, N., Yokotani, K., Okuma, Y., Okada, M., Ueno, H. and Osumi, Y.
Properties of the voltage-gated calcium channels mediating dopamine and acetylcholine release from the isolated rat retina (676) 363
Tan, A.M., see Finch, D.M. (670) 233
Tan, C.K., see Tang, F.R. (691) 153
Tan, Y., Brog, J.S., Williams, E.S. and Zahm, D.S.
Morphometric analysis of ventral mesencephalic neurons retrogradely labeled with Fluoro-Gold following injections in the shell, core and rostral pole of the rat nucleus accumbens (689) 151
Tanahashi, N., see Kobari, M. (698) 95
Tanaka, J., see Yamamuro, Y. (684) 1
Tanaka, K., see Kametani, F. (703) 237
Tanaka, O., see Sekiguchi, M. (696) 262
Tanaka, T., see Hara, A. (697) 247
Tanaka, T., see Nishimura, Y. (702) 213
Tang, F.R., Tan, C.K. and Ling, E.A.
A comparative study of NADPH-diaphorase in the sympathetic preganglionic neurons of the upper thoracic cord between spontaneously hypertensive rats and Wistar-Kyoto rats (691) 153
Tang, J.-S., see Zhang, Y.-Q. (696) 205
Tang, W.X., see Zhang, R.-L. (682) 182
Tang, W.X., see Zhang, Z.G. (698) 79
Taniguchi, T., see Shimohama, S. (699) 125
Tantuwaya, V., see Ohara, S. (699) 143
Tarnawski, M., see Wegiel, J. (705) 225
Tashiro, N., see Hondo, H. (671) 54
Tasker, J.G., see Boudaba, C. (672) 1
Tassorelli, C. and Joseph, S.A.
NADPH-diaphorase activity and Fos expression in brain nuclei following nitroglycerin administration (695) 37
Tassorelli, C. and Joseph, S.A.
Systemic nitroglycerin induces Fos immunoreactivity in brainstem and forebrain structures of the rat (682) 167
Tateishi, J., see Iwaki, T. (673) 47
Tatemoto, K., see Ishikawa, K. (677) 20
Tatemoto, K., see Ishikawa, K. (697) 122
Tator, C.H., see Anthes, D.L. (702) 1
Taylor, D.A., see Gould, E.M. (698) 62
Taylor, I.L., see Okumura, T. (673) 153
Taylor, I.L., see Okumura, T. (674) 137
Taylor, J.R., see Morrow, B.A. (673) 165
Taylor, L.P., see Mansour, A. (700) 89
Tecchio, F., see Kristeva-Feige, R. (682) 22
Teeter, J.H., see Honda, E. (703) 79
Tei, S., see Vagnetti, D. (705) 295
Teillet, M.-A., see Fadlallah, N. (675) 55
Teitler, M., see Pearl, S.M. (675) 342
Tejani-Butt, S.M., see Yu, A. (688) 209
Tejwani, G.A., see Sheu, M.-J. (675) 31
Telegdy, G., see Sarnyai, Z. (675) 89
Terasawa, K., see Matsuda, H. (686) 111
Terashima, T., see Kotani, M. (700) 40
Terenius, L., see Nylander, I. (683) 25
Terenzi, M.G. and Ingram, C.D.
A combined immunocytochemical and retrograde tracing study of noradrenergic connections between the caudal medulla and bed nuclei of the stria terminalis (672) 289
Terenzi, M.G., Zagon, A. and Roberts, M.H.T.
Efferent connections from the anterior pretectal nucleus to the diencephalon and mesencephalon in the rat (701) 183
Ter Horst, G.J., see Krugers, H.J. (690) 41
Terry, Jr., A.V., see Buccafusco, J.J. (679) 189
Teruya, H., see Sesoko, S. (671) 38
Teruyama, R. and Beck, M.M.
Development of metabolic response in male quail brain during sexual maturation (697) 169
Teskey, G.C., Valentine, P.A., Sainsbury, R.S. and Trepel, C.
Evolution of afterdischarge and seizure characteristics during electrical kindling of the guinea-pig (672) 137
Teskey, G.C., see Racine, R.J. (702) 77
Teskey, G.C., see Racine. R.J. (702) 87
Teune, T.M., Van der Burg, J. and Ruigrok, T.J.H.
Cerebellar projections to the red nucleus and inferior olive originate from separate populations of neurons in the rat: a non-fluorescent double labeling study (673) 313
Teyler, T.J., see Ferchmin, P.A. (689) 189
Thai, L.H., see Karler, R. (671) 100
Thai, Q.-A., see Fergus, A. (694) 78
Thayer, S.A., see Lo, T.-M. (704) 10
Thekkuveettil, A., see Abe, M. (683) 200
Theodorsson, E., see Bileviciute, I. (704) 71
Theodorsson, E., see Stenfors, C. (698) 39
Theodosis, D.T., see Olive, S. (689) 271
Theriault, E., see Anthes, D.L. (702) 1
Thibault, J., see Battaglia, A.A. (696) 7
Thibaut, F., Faucheux, B.A., Marquez, J., Villares, J., Menard, J.F., Agid, Y. and Hirsch, E.C.
Regional distribution of monoamine vesicular uptake sites in the mesencephalon of control subjects and patients with Parkinson's disease: a postmortem study using tritiated tetrabenazine (692) 233
Thiéry, J.-C., see Curlewis, J.D. (697) 48
Thomas, D.A. and Hammond, D.L.
Microinjection of morphine into the rat medullary dorsal horn produces a dose-dependent increase in facial scratching (695) 267
Thomas, D.A., see Ren, K. (699) 286
Thomas, M.J. and O'Dell, T.J.
The molecular switch hypothesis fails to explain the inconsistent effects of the metabotropic glutamate receptor antagonist MCPG on long-term potentiation (695) 45
Thomas, P.T., see Bhargava, H.N. (690) 121
Thompson, A.M. and Thompson, G.C.
Light microscopic evidence of serotoninergic projections to olivocochlear neurons in the bush baby (*Otolemur garnettii*) (695) 263
Thompson, A.M., see Thompson, G.C. (683) 140
Thompson, G.C., Ross, C.D., Thompson, A.M. and Byers, J.M.
Changes in brainstem calcitonin gene-related peptide after VIIth and VIIIth cranial nerve lesions in guinea pig (683) 140
Thompson, G.C., see Thompson, A.M. (695) 263
Thompson, M., see McCall, A.L. (670) 29
Thompson, N., see Dellovade, T.L. (674) 181
Thompson, P.A., see Sumiyoshi, T. (681) 109
Thompson, T.L. and Moss, R.L.
In vivo stimulated dopamine release in the nucleus accumbens: modulation by the prefrontal cortex (686) 93
Thorat, S.N., see Bhargava, H.N. (690) 121
Thoreson, W.B. and Ulphani, J.S.
Pharmacology of selective and non-selective metabotropic glutamate receptor agonists at L-AP4 receptors in retinal ON bipolar cells (676) 93
Thorne, R.G., Emory, C.R., Ala, T.A. and Frey II, W.H.
Quantitative analysis of the olfactory pathway for drug delivery to the brain (692) 278
Thornquist, S.C., see Zhao, S. (677) 300
ThyagaRajan, S., MohanKumar, P.S. and Quadri, S.K.
Cyclic changes in the release of norepinephrine and dopamine in the medial basal hypothalamus: effects of aging (689) 122
Tian, L.-M., Otoom, S. and Alkadhi, K.A.
Endogenous bursting due to altered sodium channel function in rat hippocampal CA1 neurons (680) 164

Tian, Y., see Bannon, M.J. (695) 19
Tiffany, N., see McCall, A.L. (670) 29
Tilly, J.L., see Regan, R.F. (705) 188
Timmerman, W., see Sayin, U. (669) 67
Tinner, B., see Agnati, L.F. (676) 10
Tlemçani, O., see Foidart, A. (701) 267
Tobin, J.R., Gorman, L.K., Baxter, M.G. and Traystman, R.J.
Nitric oxide synthase inhibition does not impair visual or spatial discrimination learning (694) 177
Tobler, I., see Deboer, T. (670) 153
Toda, N., Uchiyama, M. and Okamura, T.
Prejunctional modulation of nitroxidergic nerve function in canine cerebral arteries (700) 213
Toda, N., see Mizutani, Y. (693) 95
Todd, A.J., see Maxwell, D.J. (690) 127
Tohda, M., see Ojima, K. (684) 87
Tohdoh, N., see Ojika, K. (701) 19
Tohgi, H., Utsugisawa, K., Yamagata, M. and Yoshimura, M.
Effects of age on messenger RNA expression of glucocorticoid, thyroid hormone, androgen, and estrogen receptors in postmortem human hippocampus (700) 245
Tohyama, M., see Takatsuji, K. (698) 53
Tojo, C., see Takao, T. (688) 219
Tojo, H., Kaisho, Y., Nakata, M., Matsuoka, K., Kitagawa, M., Abe, T., Takami, K., Yamamoto, M., Shino, A., Igarashi, K., Aizawa, S. and Shiho, O.
Targeted disruption of the neurotrophin-3 gene with *lac*Z induces loss of *trk*C-positive neurons in sensory ganglia but not in spinal cords (669) 163
Tojo, H., see Umezawa, M. (669) 225
Tokuda, T., see Kametani, F. (703) 237
Tokuno, H., Takada, M., Nambu, A. and Inase, M.
Direct projections from the orofacial region of the primary motor cortex to the superior colliculus in the macaque monkey (703) 217
Toledo, C.A.B., Hamassaki-Britto, D.E. and Britto, L.R.G.
Serotonergic afferents of the pigeon accessory optic nucleus (705) 341
Tölle, T.R., see Ebersberger, A. (676) 336
Tomimoto, H., Akiguchi, I., Wakita, H., Nakamura, S. and Kimura, J.
Ultrastructural localization of amyloid protein precursor in the normal and postischemic gerbil brain (672) 187
Tominaga, K., see Shibata, S. (673) 320
Tomita, M., see Kobari, M. (698) 95
Tomlinson, D.R., see Garrett, N.E. (675) 203
Tonelli, L., see Vivas, L. (679) 34
Tong, Z.-Y., Overton, P.G. and Clark, D.
Chronic administration of (+)-amphetamine alters the reactivity of midbrain dopaminergic neurons to prefrontal cortex stimulation in the rat (674) 63
Toni, G., see Toni, R. (682) 101
Toni, R., Mosca, S., Ruggeri, F., Valmori, A., Orlandi, G., Toni, G., Lechan, R.M. and Vezzadini, P.
Effect of hypothyroidism on vasoactive intestinal polypeptide-immunoreactive neurons in forebrain-neurohypophysial nuclei of the rat brain (682) 101
Tonkiss, J., see Shultz, P.L. (682) 35
Tooyama, I., Kawamata, T., Akiyama, H., Kimura, H., Moestrup, S.K., Gliemann, J., Matsuo, A. and McGeer, P.L.
Subcellular localization of the low density lipoprotein receptor-related protein (α_2-macroglobulin receptor) in human brain (691) 235
Toppinen, A., see Halonen, T. (693) 217
Torack, R.M. and Miller, J.W.
Denervation induced abnormal phosphorylation in hippocampal neurons (669) 135
Torii, K., see Hawkins, R.L. (704) 1
Torii, K., see Nishimura, F. (691) 217
Tortella, F.C., see Clapp, L.E. (693) 101
Tortella, F.C., see DeCoster, M.A. (671) 45
Tortella, F.C., see Klette, K.L. (704) 31
Tortosa, A., see Espino, A. (695) 151
Toth, E., see Kiss, J.P. (674) 238
Totsune, K., see Mizuno, Y. (686) 115
Toulmond, S. and Rothwell, N.J.
Interleukin-1 receptor antagonist inhibits neuronal damage caused by fluid percussion injury in the rat (671) 261
Trabace, L., see Pozzi, L. (692) 265
Tracey, D.J., Romm, M.A. and Yao, N.N.L.
Peripheral hyperalgesia in experimental neuropathy: exacerbation by neuropeptide Y (669) 245
Trachtman, H., Yancey, P.H. and Gullans, S.R.
Cerebral cell volume regulation during hypernatremia in developing rats (693) 155
Traub, R.J., Stitt, S. and Gebhart, G.F.
Attenuation of c-Fos expression in the rat lumbosacral spinal cord by morphine or tramadol following noxious colorectal distention (701) 175
Travis, K.A., Bockholt, H.J., Zardetto-Smith, A.M. and Johnson, A.K.
In vitro thermosensitivity of the midline thalamus (686) 17
Traystman, R.J., see Tobin, J.R. (694) 177
Tredici, G., see Marini, G. (690) 177
Treit, D., see Pesold, C. (671) 213
Trepel, C., see Racine, R.J. (702) 87
Trepel, C., see Teskey, G.C. (672) 137
Tretter, L., see Carvalho, C.M. (669) 234
Tribollet, E., see Arsenijevic, Y. (698) 275
Trifunjagić, D., see Ljubisavljević, M. (673) 126
Trojanowski, J.Q., see Mantione, J.R. (671) 333
Truex, L.L., see Fix, A.S. (696) 194
Trujillo, K.A., Bronstein, D.M., Sanchez, I.O. and Akil, H.
Effects of chronic opiate and opioid antagonist treatment on striatal opioid peptides (698) 69
Trujillo, K.A., see Gutstein, H.B. (680) 173
Truong, D.D., see Kanthasamy, A.G. (705) 97
Tsai, P.-J., see Yang, C.-S. (698) 237
Tsai, Y.-F., see Kow, L.-M. (694) 29
Tsang, W., see Joseph, R. (690) 92
Tsang, W., see Zhang, R.-L. (682) 182
Tschöpe, C., Jost, N., Unger, T. and Culman, J.
Central cardiovascular and behavioral effects of carboxy- and amino-terminal fragments of substance P in conscious rats (690) 15
Tso, P., see Okumura, T. (673) 153
Tsuboi, Y., see Iwata, K. (678) 127
Tsuda, T., see Kajiwara, K. (671) 170
Tsugu, Y., see Ojika, K. (701) 19
Tsuji, S., see Hozumi, I. (688) 143
Tsuji, S., see Kuwabara, T. (670) 326
Tsukahara, T., Kunika, N., Momoi, T. and Arahata, K.
Regulation of alternative splicing in the amyloid precursor protein (APP) mRNA during neuronal and glial differentiation of P19 embryonal carcinoma cells (679) 178
Tsukamoto, T., see Sato, Y. (692) 66
Tsumori, C., see Shibasaki, T. (670) 169
Tsumori, C., see Shibasaki, T. (688) 189
Tsumori, T., see Yasui, Y. (674) 122
Tsunoda, K., Mori, N., Osonoe, M., Ariga, K., Saitoh, H., Kittaka, H. and Ogata, S.-i.
Different effect of hippocampal granule cell destruction on amygdaloid kindling in Sprague-Dawley and Wistar rats (691) 18
Tsutsui, K. and Yamazaki, T.
Avian neurosteroids. I. Pregnenolone biosynthesis in the quail brain (678) 1
Tsutsui, K., see Usui, M. (678) 10
Tsuzuki, K., Fukatsu, R., Takamaru, Y., Yoshida, T., Mafune, N., Kobayashi, K., Fujii, N. and Takahata, N.
Co-localization of amyloid-associated proteins with amyloid β in rat soleus muscle in chloroquine-induced myopathy: a possible model for amyloid β formation in Alzheimer's disease (699) 260
Tuor, U.I., see Hill, I.E. (676) 398
Turek, F.W., see Penev, P.D. (669) 207
Turner, D.A., see Shetty, A.K. (676) 293
Turner, J.E., see Jaynes, C.D. (678) 55
Turzynski, A., see Struckhoff, G. (676) 1
Tuson, S.J.M., see Nicol, D.J. (684) 230
Tuunanen, J., see Halonen, T. (693) 217
Ty Smith, N., see Weinger, M.B. (669) 10

U

Uchida, Y., see Hozumi, I. (688) 143
Uchimura, H., see Hondo, H. (671) 54
Uchino, H., see Sasaki, S.-I. (701) 108
Uchitomi, Y., see Kugaya, A. (682) 151
Uchiyama, M., see Toda, N. (700) 213
Uda, R., see Nishihara, I. (677) 138
Uda, Y., see Hozumi, I. (688) 143
Ueda, H., Sato, K., Okumura, F. and Misu, Y.
L-DOPA inhibits spontaneous acetylcholine release from the striatum of experimental Parkinson's model rats (698) 213

Ueda, S., Matsumoto, Y., Nisimura, A., Azmitia, E.C. and Kawata, M.
Role of neuropeptide Y projection on the development of serotonergic innervation in the suprachiasmatic nucleus of the rat, shown by triple intraocular grafts (673) 325
Uematsu, T., see Iwai, T. (671) 305
Uemura, E., Carriquiry, A., Kliemann, W. and Goodwin, J.
Mathematical modeling of dendritic growth in vitro (671) 187
Uemura, E., see Goodwin, J.L. (692) 207
Uemura, N., see Hisano, S. (676) 409
Ueno, H., see Tamura, N. (676) 363
Ueno, S., see Yoshiura, T. (703) 139
Ueta, Y., Yamashita, H., Kawata, M. and Koizumi, K.
Water deprivation induces regional expression of c-*fos* protein in the brain of inbred polydipsic mice (677) 221
Ueta, Y., see Inenaga, K. (705) 85
Ueyama, T., see Ikeda, M. (690) 225
Ueyama, T., see Nakagawa, H. (690) 236
Ugolini, G., Cremisi, F. and Maffei, L.
TrkA, TrkB and p75 mRNA expression is developmentally regulated in the rat retina (704) 121
Ukai, M., Shinkai, N., Ohashi, K. and Kameyama, T.
Substance P markedly ameliorates scopolamine-induced impairment of spontaneous alternation performance in the mouse (673) 335
Uko-eninn, A., see Mooradian, A.D. (671) 159
Ulmer, H.J., De Lima, V.M.F. and Hanke, W.
Effects of nitric oxide on the retinal spreading depression (691) 239
Ulphani, J.S., see Thoreson, W.B. (676) 93
Umezawa, M., Ohta, A., Tojo, H., Yagi, H., Hosokawa, M. and Takeda, T.
Dietary α-linolenate/linoleate balance influences learning and memory in the senescence-accelerated mouse (SAM) (669) 225
Underwood, M.D., see Arango, V. (688) 121
Unger, T., see Tschöpe, C. (690) 15
Ungerstedt, U., see Stiller, C.-O. (699) 231
Unnerstall, J.R., see Hama, A.T. (687) 103
Uno, H., see Fuchs, E. (673) 275
Unsicker, K., see Wewetzer, K. (693) 31
Updyke, B.V., see Rieck, R.W. (672) 237
Urban, I.J.A., see Chepkova, A.N. (701) 255
Urban, L., see Nagy, I. (703) 223
Urbanski, H.F., see Raitiere, M.N. (705) 159
Uretsky, N.J., see Kaddis, F.G. (697) 76
Ursin, R., see Bjørkum, A.A. (692) 251
Uruno, K., O'Connor, M.J. and Masukawa, L.M.
Effects of bicuculline and baclofen on paired-pulse depression in the dentate gyrus of epileptic patients (695) 163
Uruno, K., see Masukawa, L.M. (678) 65
Usami, S.-i. and Ottersen, O.P.
Differential cellular distribution of glutamate and glutamine in the rat vestibular endorgans: an immunocytochemical study (676) 285
Usami, S.-i. and Ottersen, O.P.
The localization of taurine-like immunoreactivity in the organ of Corti: a semiquantitative, post-embedding immuno-electron microscopic analysis in the rat with some observations in the guinea pig (676) 277
Usui, M., Yamazaki, T., Kominami, S. and Tsutsui, K.
Avian neurosteroids. II. Localization of a cytochrome P450scc-like substance in the quail brain (678) 10
Utsugisawa, K., see Tohgi, H. (700) 245
Utsumi, A., see Fukudo, S. (675) 98
Uylings, H.B.M., see Broersen, L.M. (674) 221
Uylings, H.B.M., see Koenderink, M.J.Th. (678) 233

V

Väänänen, K., see Agnati, L.F. (676) 10
Vaglini, F., Pardini, C., Maggio, R. and Corsini, G.U.
Role of excitatory amino-acids in diethyldithiocarbamate-induced cell death in mesencephalic cultures (674) 127
Vagnetti, D., Tei, S., Secca, T., Santarella, B., Roscani, C. and Farnesi, R.M.
Biochemical and cytochemical analyses of BNP-stimulated guanylate cyclase in frog choroid plexus (705) 295
Valcourt, E., see Namgung, U. (689) 85
Valentine, P.A., see Teskey, G.C. (672) 137
Vallet, P., see Arsenijevic, Y. (698) 275
Valmier, J., see Mayeux, V. (694) 191
Valmori, A., see Toni, R. (682) 101
Van Alphen, J., see Duffin, J. (694) 55
Van Bockstaele, E.J. and Pickel, V.M.
GABA-containing neurons in the ventral tegmental area project to the nucleus accumbens in rat brain (682) 215
VanBueren, A., see McCall, A.L. (670) 29
Van de Kar, L.D., see Richardson Morton, K.D. (698) 185
Van den Buuse, M., see Cornish, J.L. (701) 28
Van de Nes, J.A.P., see Salehi, A. (678) 29
Van der Burg, J., see Teune, T.M. (673) 313
Vanderklish, P., see Bednarski, E. (694) 147
Vanderschuren, L.J.M.J., Stein, E.A., Wiegant, V.M. and Van Ree, J.M.
Social play alters regional brain opioid receptor binding in juvenile rats (680) 148
Van der Sloot, P., see Zochodne, D.W. (698) 130
Van der Want, J.J.L., see Klooster, J. (688) 34
Van der Want, J.J.L., see Klooster, J. (688) 47
Vanderwolf, C.H., see Heale, V.R. (690) 157
Van der Zee, E.A. and Bult, A.
Distribution of AVP and Ca^{2+}-dependent PKC-isozymes in the suprachiasmatic nucleus of the mouse and rabbit (701) 99
Van der Zee, E.A., Bolhuis, J.J., Solomonia, R.O., Horn, G. and Luiten, P.G.M.
Differential distribution of protein kinase C (PKCαβ and PKCγ) isoenzyme immunoreactivity in the chick brain (676) 41
Vandesande, F., see Collin, F. (703) 111
Van Eldik, L.J., see Barger, S.W. (677) 167
Vanhatalo, S. and Soinila, S.
Dopaminergic periventriculo-hypophyseal nerves show tryptophan-hydroxylase immunoreactivity but lack serotonin synthesis (687) 205
Vanhatalo, S., Soinila, S., Kaartinen, K. and Bäck, N.
Colocalization of dopamine and serotonin in the rat pituitary gland and in the nuclei innervating it (669) 275
Vanisberg, M.-A., see Maloteaux, J.-M. (687) 155
Van Melle, G., see Monnet-Tschudi, F. (690) 8
Van Oortmerssen, G.A., see Hensbroek, R.A. (682) 203
Van Ree, J.M., see Vanderschuren, L.J.M.J. (680) 148
Varner, J.A., see Isaacson, R.L. (689) 79
Vathy, I., see Rimanóczy, A. (690) 245
Vaucher, E., Borredon, J., Seylaz, J. and Lacombe, P.
Autoradiographic distribution of cerebral blood flow increases elicited by stimulation of the nucleus basalis magnocellularis in the unanesthetized rat (691) 57
Vaudry, H., see Collin, F. (703) 111
Vázquez, J., see Merchant-Nancy, H. (681) 15
Vecino, E., see Velasco, A. (705) 315
Vecsernyés, M., see Sarnyai, Z. (675) 89
Vela, G., Fuentes, J.A., Bonnin, A., Fernández-Ruiz, J. and Ruiz-Gayo, M.
Perinatal exposure to Δ^9-tetrahydrocannabinol (Δ^9-THC) leads to changes in opioid-related behavioral patterns in rats (680) 142
Vela, J.M., Dalmau, I., Acarín, L., González, B. and Castellano, B.
Microglial cell reaction in the gray and white matter in spinal cords from jimpy mice. An enzyme histochemical study at the light and electron microscope level (694) 287
Velasco, A., Caminos, E., Vecino, E., Lara, J.M. and Aijón, J.
Microglia in normal and regenerating visual pathways of the tench (*Tinca tinca* L., 1758; Teleost): a study with tomato lectin (705) 315
Velíšek, L., Moshé, S.L. and Stanton, P.K.
Resistance of hippocampal synaptic transmission to hypoxia in carbonic anhydrase II-deficient mice (671) 245
Venero, J.L., Romero-Ramos, M., Revuelta, M., Machado, A. and Cano, J.
Intrastriatal quinolinic acid injections protect against 6-hydroxydopamine-induced lesions of the dopaminergic nigrostriatal system (672) 153
Verbalis, J.G., see Adler, S. (679) 135

Verdú, E., Butí, M. and Navarro, X.
The effect of aging on efferent nerve fibers regeneration in mice (696) 76
Verrastro, T.A., see Shain, D.H. (697) 241
Versteeg, D.H.G., Heemskerk, F.M.J., Spierenburg, H.A., De Graan, P.N.E. and Schrama, L.H.
4-Aminopyridine differentially affects the spontaneous release of radiolabelled transmitters from rat brain slices in vitro (686) 233
Vexler, Z.S., see Roberts, T.P.L. (699) 51
Veznedaroglu, E., see Milner, T.A. (670) 121
Vezzadini, P., see Toni, R. (682) 101
Viana Di Prisco, G., Ohta, Y., Bongianni, F., Grillner, S. and Dubuc, R.
Trigeminal inputs to reticulospinal neurones in lampreys are mediated by excitatory and inhibitory amino acids (695) 76
Vickers, J.C., Huntley, G.W., Hof, P.R., Bederson, J., DeFelipe, J. and Morrison, J.H.
Immunocytochemical localization of non-NMDA ionotropic excitatory amino acid receptor subunits in human neocortex (671) 175
Vickers, J.C., Schumer, R.A., Podos, S.M., Wang, R.F., Riederer, B.M. and Morrison, J.H.
Differential vulnerability of neurochemically identified subpopulations of retinal neurons in a monkey model of glaucoma (680) 23
Victorov, I.V., see Schreiber, S.J. (703) 227
Vida, I., Czopf, J. and Czéh, G.
A current–source density analysis of the long-term potentiation in the hippocampus (671) 1
Vidal, A., see Ferrer, I. (692) 41
Vierck, Jr., C.J., see Yeomans, D.C. (670) 297
Vignon, J., see Lockhart, B.P. (670) 313
Vila, J., see Lockhart, B.P. (670) 313
Villalobos-Molina, R., see Joseph, J.A. (673) 185
Villalpando, A., see Ågmo, A. (696) 177
Villalpando, A., see Ågmo, A. (696) 187
Villani, L. and Guarnieri, T.
Localization of NADPH-diaphorase in the goldfish brain (679) 261
Villani, L. and Guarnieri, T.
Ultrastructural localization of NADPH-diaphorase in the goldfish brain (705) 332
Villanueva, L., see Ardid, D. (695) 253
Villares, J., see Faucheux, B.A. (691) 115
Villares, J., see Thibaut, F. (692) 233
Villegas, G.M., Haustein, A.T. and Villegas, R.
Neuronal differentiation of PC12 and chick embryo ganglion cells induced by a sciatic nerve conditioned medium: characterization of the neurotrophic activity (685) 77
Villegas, R., see Villegas, G.M. (685) 77
Viña, J.R., see O'Connor, E. (680) 157
Virgo, L. and De Belleroche, J.
Induction of the immediate early gene c-*jun* in human spinal cord in amyotrophic lateral sclerosis with concomitant loss of NMDA receptor NR-1 and glycine transporter mRNA (676) 196
Virgo, L., see Hay, C. (704) 145
Vismara, C., see Londei, T. (677) 61
Viswanathan, M., see De Oliveira, A.M. (705) 177
Viswanathan, M., see Jöhren, O. (702) 153
Viswanathan, N. and Davis, F.C.
Suprachiasmatic nucleus grafts restore circadian function in aged hamsters (686) 10
Vitarella, D., see Rising, L. (678) 91
Vivas, L., Pastuskovas, C.V. and Tonelli, L.
Sodium depletion induces Fos immunoreactivity in circumventricular organs of the lamina terminalis (679) 34
Vizi, E.S., see Bencsics, A. (705) 302
Vizi, E.S., see Kiss, J.P. (674) 238
Vlaskovska, M., see Nylander, I. (683) 25
Vogel, J., see Zeller, K. (698) 175
Volk, B., see Kempermann, G. (687) 194
Vollrath, L., see Spessert, R. (694) 207
Von Euler, G., see Hillefors-Berglund, M. (690) 34
Von Hoersten, S., see Laban, O. (676) 133
Vrang, N., Larsen, P.J. and Mikkelsen, J.D.
Direct projection from the suprachiasmatic nucleus to hypophysiotrophic corticotropin-releasing factor immunoreactive cells in the paraventricular nucleus of the hypothalamus demonstrated by means of *Phaseolus vulgaris*-leucoagglutinin tract tracing (684) 61
Vrang, N., see Larsen, P.J. (705) 209
Vrensen, G.F.J.M., see Klooster, J. (688) 34
Vrensen, G.F.J.M., see Klooster, J. (688) 47
Vreugdenhil, M., Somjen, G.G. and Wadman, W.J.
Effects of strongly anisosmotic and NaCl deficient solutions on muscimol- and glutamate evoked whole-cell currents in freshly dissociated hippocampal neurons (670) 89
Vukčević, I., see Ljubisavljević, M. (691) 99

W

Wada, H., see Sato, Y. (692) 66
Wada, J.A., see Chiba, S. (682) 50
Wadman, W.J., see Vreugdenhil, M. (670) 89
Wagner, C.K., Eaton, M.J., Moore, K.E. and Lookingland, K.J.
Efferent projections from the region of the medial zona incerta containing A_{13} dopaminergic neurons: a PHA-L anterograde tract-tracing study in the rat (677) 229
Wagoner Jr., D.E., see Aschner, M. (689) 1
Wahlström, G., see Korkmaz, S. (676) 371
Wahnschaffe, U., see Löscher, W. (697) 197
Wakabayashi, I., see Okada, K. (699) 33
Wakabayashi, K., Kakita, A., Sakamoto, M., Su, M., Iwanaga, K. and Ikuta, F.
Variability of brain lesions in rats administered methylmercury at various postnatal development phases (705) 267
Wakabayashi, S., Freed, L.M., Chang, M. and Rapoport, S.I.
In vivo imaging of brain incorporation of fatty acids and of 2-deoxy-D-glucose demonstrates functional and structural neuroplastic effects of chronic unilateral visual deprivation in rats (679) 110
Wakabayashi, T., see Ichihara, N. (695) 173
Wakabayashi, Y., see Asakuno, K. (702) 23
Wakita, H., see Tomimoto, H. (672) 187
Waldbillig, R.J., see Ikeda, T. (686) 87
Walewski, J.L., see Salazar, B.C. (699) 305
Walker, C.H., see Caldwell, J.D. (693) 225
Walker, D.G., Yasuhara, O., Patston, P.A., McGeer, E.G. and McGeer, P.L.
Complement C1 inhibitor is produced by brain tissue and is cleaved in Alzheimer disease (675) 75
Walker, D.W., see Webb, B. (701) 61
Walker, J.C., see Jennings, R.A. (683) 159
Wallace, L.J., see Dalia, A. (694) 299
Wallace, L.J., see Kaddis, F.G. (697) 76
Wallis, R.A. and Panizzon, K.L.
Delayed neuronal injury induced by sublethal NMDA exposure in the hippocampal slice (674) 75
Wallis, R.A., Panizzon, K.L. and Nolan, J.P.
Glycine-induced CA1 excitotoxicity in the rat hippocampal slice (685) 225
Wallois, F., Gros, F., Masmoudi, K. and Larnicol, N.
C-Fos-like immunoreactivity in the cat brainstem evoked by sneeze-inducing air puff stimulation of the nasal mucosa (687) 143
Walsh, T.J., Kelly, R.M., Dougherty, K.D., Stackman, R.W., Wiley, R.G. and Kutscher, C.L.
Behavioral and neurobiological alterations induced by the immunotoxin 192-IgG-saporin: cholinergic and non-cholinergic effects following i.c.v. injection (702) 233
Walsh, T.J., see Janis, L.S. (679) 99
Walsh, T.J., see Yurdaydin, C. (679) 42
Walters, J.R., see Anderson, L.A. (691) 106
Wan, W., Ennulat, D.J. and Cohen, B.M.
Acute administration of typical and atypical antipsychotic drugs induces distinctive patterns of Fos expression in the rat forebrain (688) 95
Wang, E., see Prabhakar, S. (672) 159
Wang, G.-Y., see Mizutani, Y. (693) 95
Wang, H.-L., see Wu, T. (683) 242
Wang, J.Q. and McGinty, J.F.
Alterations in striatal zif/268, preprodynorphin and preproenkephalin mRNA expression induced by repeated amphetamine administration in rats (673) 262
Wang, L. and Bradley, R.M.
In vitro study of afferent synaptic transmission in the rostral gustatory zone of the rat nucleus of the solitary tract (702) 188

Wang, L., Milne, B. and Jhamandas, K.
Involvement of excitatory amino acid pathways in the expression of precipitated opioid withdrawal in the rostral ventrolateral medulla: an in vivo voltammetric study (697) 130
Wang, Q., see Dryden, S. (699) 12
Wang, Q., see Frankish, H.M. (694) 139
Wang, Q., see Pelligrino, D.A. (704) 61
Wang, Q.-P. and Nakai, Y.
Immunoelectron microscopy of β-endorphinergic synaptic innervation of nitric oxide synthase immunoreactive neurons in the dorsal raphe nucleus (684) 185
Wang, R.F., see Vickers, J.C. (680) 23
Wang, S., see Yang, Q. (696) 49
Wang, X.-H., Levitt, P., Grayson, D.R. and Murphy, E.H.
Intrauterine cocaine exposure of rabbits: persistent elevation of GABA-immunoreactive neurons in anterior cingulate cortex but not visual cortex (689) 32
Wang, Y., Chiou, A.L., Yang, S.T. and Lin, J.C.
Ketamine antagonizes hypoxia-induced dopamine release in rat striatum (693) 233
Wang, Y.-X., see Sato, K. (689) 71
Wanke, E., see Franceschetti, S. (696) 127
Ward, H.E., see Cratty, M.S. (675) 297
Ward, I.L., see Kerchner, M. (672) 251
Ward, O.B., see Kerchner, M. (672) 251
Warner, L.A., see Hernandez, T.D. (673) 208
Warren, S.G., Humphreys, A.G., Juraska, J.M. and Greenough, W.T.
LTP varies across the estrous cycle: enhanced synaptic plasticity in proestrus rats (703) 26
Warshaw, J.B., see Xia, Y. (675) 224
Wasserman, R.H., see McDonald, T.J. (675) 303
Wassmann, H., see Lücke, A. (671) 222
Watanabe, A., Shibata, S. and Watanabe, S.
Circadian rhythm of spontaneous neuronal activity in the suprachiasmatic nucleus of old hamster in vitro (695) 237
Watanabe, A., see Yoneda, Y. (685) 105
Watanabe, H., see Kuwabara, T. (670) 326
Watanabe, H., see Matsuda, H. (686) 111
Watanabe, H., see Ni, J.-W. (673) 290
Watanabe, H., see Ojima, K. (684) 87
Watanabe, K., Katagai, T., Ishida, N. and Yamaoka, S.
Anisomycin induces phase shifts of circadian pacemaker in primary cultures of rat suprachiasmatic nucleus (684) 179
Watanabe, M., Shimizu, K., Kodama, Y., Takishima, K., Mamiya, G. and Ichinowatari, N.
Potentiating effects of methamphetamine on the hyperactivity of microencephalic rats treated prenatally with methylazoxymethanol: possible implication of hyperdopaminergia (670) 173
Watanabe, M., see Iizuka, T. (702) 275
Watanabe, M., see Lee, W. (690) 64
Watanabe, S., see Inoue, H. (671) 95
Watanabe, S., see Kato, I. (705) 109
Watanabe, S., see Nishikawa, Y. (695) 158
Watanabe, S., see Ohno, M. (684) 237
Watanabe, S., see Ohno, M. (699) 332
Watanabe, S., see Shibata, S. (670) 337
Watanabe, S., see Shibata, S. (673) 320
Watanabe, S., see Shimosato, K. (684) 243
Watanabe, S., see Watanabe, A. (695) 237
Watanabe, T., see Nakamori, T. (675) 103
Watanabe, Y., Saito, H. and Abe, K.
Nitric oxide is involved in long-term potentiation in the medial but not lateral amygdala neuron synapses in vitro (688) 233
Watanabe, Y., Weiland, N.G. and McEwen, B.S.
Effects of adrenal steroid manipultations and repeated restraint stress on dynorphin mRNA levels and excitatory amino acid receptor binding in hippocampus (680) 217
Watanabe, Y., see Cao, C. (697) 187
Waterhouse, B.D., see Lee, R.-S. (687) 1
Waterhouse, B.D., see Lee, R.-S. (687) 12
Waterhouse, B.D., see Sessler, F.M. (675) 171
Waters, N.S., see Rosen, G.D. (681) 177
Watkins, J.C., see Attwell, P.J.E. (698) 155
Watkins, L.R., Goehler, L.E., Relton, J., Brewer, M.T. and Maier, S.F.
Mechanisms of tumor necrosis factor-α (TNF-α) hyperalgesia (692) 244
Watkins, L.R., see Maier, S.F. (695) 279
Watson, B.D., see Belayev, L. (702) 266
Watson, Jr., R.E., Langub, Jr., M.C., Engle, M.G. and Maley, B.E.
Estrogen-receptive neurons in the anteroventral periventricular nucleus are synaptic targets of the suprachiasmatic nucleus and peri-suprachiasmatic region (689) 254
Watson, P.L. and Andrew, R.D.
Effects of micromolar and nanomolar calcium concentrations on non-synaptic bursting in the hippocampal slice (700) 227
Watson, S.J., see Herman, J.P. (677) 243
Watson, S.J., see Mansour, A. (700) 89
Watts, A.G. and Sanchez-Watts, G.
A cell-specific role for the adrenal gland in regulating CRH mRNA levels in rat hypothalamic neurosecretory neurons after cellular dehydration (687) 63
Wear, K.D., see Bickford, P.C. (705) 235
Weaver, S., see O'Donnell, D. (687) 133
Webb, A.C., see Bradley, P.M. (699) 103
Webb, B., Suarez, S.S., Heaton, M.B. and Walker, D.W.
Ethanol and nerve growth factor effects on calcium homeostasis in cultured embryonic rat medial septal neurons before and during depolarization (701) 61
Weber, E., see Oliff, H.S. (675) 20
Weber, E., see Oliff, H.S. (699) 329
Weber, E.T., Gannon, R.L., Michel, A.M., Gillette, M.U. and Rea, M.A.
Nitric oxide synthase inhibitor blocks light-induced phase shifts of the circadian activity rhythm, but not c-*fos* expression in the suprachiasmatic nucleus of the Syrian hamster (692) 137
Weber, N.C., see Sekhon, L.H.S. (704) 107
Wegiel, J., Wisniewski, H.M., Dziewiatkowski, J., Tarnawski, M., Nowakowski, J., Dziewiatkowska, A. and Soltysiak, Z.
The origin of amyloid in cerebral vessels of aged dogs (705) 225
Wehner, J.M., see Fordyce, D.E. (672) 170
Wei, H.M., see Lu, X. (669) 35
Wei, J., see Quast, M.J. (677) 204
Weibel, D., Kreutzberg, G.W. and Schwab, M.E.
Brain-derived neurotrophic factor (BDNF) prevents lesion-induced axonal die-back in young rat optic nerve (679) 249
Weidenfeld, J., see Ben-Hur, T. (702) 17
Weidenheim, K.M., see Larocca, J.N. (701) 135
Weight, F.F., see Fan, P. (673) 181
Weil-Fugazza, J., see Bertrand, A. (681) 201
Weiland, N.G., see Kow, L.-M. (694) 29
Weiland, N.G., see Watanabe, Y. (680) 217
Weinberg, J.B., see Mark, G.P. (688) 184
Weinberg, R.J., see Gonchar, Y.A. (697) 27
Weinberger, N.M., see South, D.A. (704) 275
Weinger, M.B., Chen, D.-Y., Lin, T., Lau, C., Koob, G.F. and Ty Smith, N.
A role for CNS α-2 adrenergic receptors in opiate-induced muscle rigidity in the rat (669) 10
Weiss, H.R., see Lu, X. (669) 35
Weiss, J.H., see Yin, H.-z. (689) 265
Weiss, M., Buldakova, S. and Dutova, E.
Interaction of the β-carboline harmaline with a GABA-benzodiazepine mechanism: an electrophysiological investigation on rat hippocampal slices (695) 105
Weizman, R., see Gordon, I. (674) 205
Welch, S.P., see Bernstein, M.A. (696) 83
Welch, S.P., see Pugh, Jr., G. (689) 157
Wellman, C.L. and Sengelaub, D.R.
Alterations in dendritic morphology of frontal cortical neurons after basal forebrain lesions in adult and aged rats (669) 48
Welner, S.A., Rousse, I. and Rochford, J.
Transplants to the cerebral cortex of nucleus basalis magnocellularis-lesioned rats: effects on deficits in latent inhibition (671) 309
Wenberg, K., see Gruen, R.J. (684) 112
Wenk, G.L., Rance, N.E. and Mobley, S.L.
Effects of excitatory amino acid lesions upon neurokinin B and acetylcholine neurons in the nucleus basalis of the rat (679) 8
Wenkstern, D., see Pfaus, J.G. (693) 21
Werling, L.L., see Gonzalez-Alvear, G.M. (673) 61
Werling, L.L., see Hurt, K.J. (673) 226
Werner, D., Hawrylak, N., Comery, T.A., Karr, T.L. and Greenough, W.T.
Expression of DMAP-45R in the rat visual cortex is modulated by visual experience (701) 55
Werth, E., see Landolt, H.-P. (675) 67

Wertkin, A.M., see Mantione, J.R. (671) 333
Wesselingh, S.L., see Gieroba, Z.J. (675) 329
Wessendorf, M.W., see Jansen, A.S.P. (683) 1
Westerink, B.H.C., see Sayin, U. (669) 67
Westlund, K.N., see Supowit, S.C. (686) 77
Wetzel, D.M., Bohn, M.C., Kazee, A.M. and Hamill, R.W.
Glucocorticoid receptor mRNA in Alzheimer's diseased hippocampus (679) 72
Wewetzer, K., Rauvala, H. and Unsicker, K.
Immunocytochemical localization of the heparin-binding growth-associated molecule (HB-GAM) in the developing and adult rat cerebellar cortex (693) 31
Wex, H., see Seidel, B. (700) 13
Wheaton, M.J., see White, S.R. (681) 167
Whishaw, I.Q., see Miklyaeva, E.I. (681) 23
Whitaker-Azmitia, P.M., see Azmitia, E.C. (677) 181
White, S.R., Harris, G.C., Imel, K.M. and Wheaton, M.J.
Inhibitory effects of dopamine and methylenedioxymethamphetamine (MDMA) on glutamate-evoked firing of nucleus accumbens and caudate/putamen cells are enhanced following cocaine self-administration (681) 167
White, T.D., see Golembiowska, K. (699) 315
Whitehouse, P.J., see Shimohama, S. (669) 217
Whitehouse, P.J., see Shimohama, S. (699) 125
Whitman, D.C. and Albers, H.E.
Role of oxytocin in the hypothalamic regulation of sexual receptivity in hamsters (680) 73
Whitmire, J., see Schechter, R. (670) 1
Whitson, J.S., Kampfl, A., Zhao, X., Dixon, C.E. and Hayes, R.L.
Brief potassium depolarization decreases levels of neurofilament proteins in CNS culture (694) 213
Whittemore, E.R., see Woods, A.G. (697) 53
Whitton, P.S., see Biggs, C.S. (684) 172
Whitton, P.S., see Britton, P. (673) 331
Whitty, C.J., see Bannon, M.J. (695) 19
Wiborg, O., see Linnet, K. (697) 251
Wichems, C.H., Hollingsworth, C.K. and Bennett, B.A.
Release of serotonin induced by 3,4-methylenedioxymethamphetamine (MDMA) and other substituted amphetamines in cultured fetal raphe neurons: further evidence for calcium-independent mechanisms of release (695) 10
Wieczorek, W. and Kruk, Z.L.
Influences of neuronal uptake and D_2 autoreceptors on regulation of extracellular dopamine in the core, shell and rostral pole of the rat nucleus accumbens (699) 171
Wieczorek, W., see Williams, J.E.G. (678) 225
Wiedner, E.B., see Bao, X. (696) 246
Wiegant, V.M., see Vanderschuren, L.J.M.J. (680) 148
Wiesenfeld-Hallin, Z., see Xu, X.-J. (670) 342
Wiestler, O.D., see Blümcke, I. (682) 239
Wightman, R.M., see Jackson, B.P. (674) 163
Wiklund, P., see Edström, A. (693) 148
Wikström, M., Hill, R., Hellgren, J. and Grillner, S.
The action of 5-HT on calcium-dependent potassium channels and on the spinal locomotor network in lamprey is mediated by 5-HT_{1A}-like receptors (678) 191
Wilce, P., see Davidson, M. (674) 91
Wilding, J.P.H., see Lambert, P.D. (670) 59
Wiley, R.G., see Roberts, R.C. (701) 227
Wiley, R.G., see Walsh, T.J. (702) 233
Wilkemeyer, M.F. and Angelides, K.J.
Adenovirus-mediated expression of a reporter gene in thalamocortical cocultures (703) 129
Williams, D., see Adler, S. (679) 135
Williams, E.S., see Tan, Y. (689) 151
Williams, F.G., Mullet, M.A. and Beitz, A.J.
Basal release of Met-enkephalin and neurotensin in the ventrolateral periaqueductal gray matter of the rat: a microdialysis study of antinociceptive circuits (690) 207
Williams, G., see Dryden, S. (690) 185
Williams, G., see Dryden, S. (699) 12
Williams, G., see Frankish, H.M. (694) 139
Williams, J.E.G., Wieczorek, W., Willner, P. and Kruk, Z.L.
Parametric analysis of the effects of cocaine and cocaine pretreatment on dopamine release in the nucleus accumbens measured by fast cyclic voltammetry (678) 225
Williams, M.B. and Jope, R.S.
Modulation by inositol of cholinergic-and serotonergic-induced seizures in lithium-treated rats (685) 169
Willner, P., see Williams, J.E.G. (678) 225
Willoughby, J.O., Mackenzie, L., Medvedev, A. and Hiscock, J.J.
Distribution of Fos-positive neurons in cortical and subcortical structures after picrotoxin-induced convulsions varies with seizure type (683) 73
Willoughby, J.O., see Gieroba, Z.J. (683) 43
Wills, M.R., see Savory, J. (669) 325
Wilmarth, K.R., see Reagan, K.E. (671) 12
Wilson, D.A.
NMDA receptors mediate expression of one form of functional plasticity induced by olfactory deprivation (677) 238
Wilson, L.B., see Ally, A. (677) 268
Wimer, C.C., see Wimer, R.E. (701) 293
Wimer, R.E., Wimer, C.C., Cohen, A.J. and Alameddine, L.
Search for a gene that may result in fewer neurons in the adult mouse hippocampus (701) 293
Winblad, B., see Garlind, A. (681) 160
Windebank, A.J., see Russell, J.W. (676) 258
Winterson, B.J., see Anderson, M.F. (678) 140
Wion, D., see Jehan, F. (672) 128
Wirtshafter, D. and Asin, K.E.
Dopamine antagonists induce fos-like-immunoreactivity in the substantia nigra and entopeduncular nucleus of the rat (670) 205
Wise, R.A., see Museo, E. (670) 257
Wise, R.A., see Noel, M.B. (673) 304
Wishart, T., see Shuaib, A. (702) 199
Wiśniewski, H.M., see Mazur-Kolecka, B. (698) 217
Wisniewski, H.M., see Calingasan, N.Y. (677) 50
Wisniewski, H.M., see Frackowiak, J. (676) 225
Wisniewski, H.M., see Kida, E. (674) 341
Wisniewski, H.M., see Wegiel, J. (705) 225
Wisniewski, K.E., see Kida, E. (685) 211
Witkin, J.W., see Sullivan, K.A. (685) 198
Wittenberg, G.F., see Randall, R.D. (701) 238
Witz, A., see Regan, R.F. (705) 188
Woda, A., see Cadet, R. (676) 189
Wolf, G., see Darius, S. (690) 231
Wolf, H.K., see Blümcke, I. (682) 239
Wolfe, B.B., see Yasuda, R.P. (678) 161
Wolfe, M.S., Lee, N.R. and Zatz, M.
Properties of clock-controlled and constitutive *N*-acetyltransferases from chick pineal cells (669) 100
Wolff, J.R., see Rickmann, M. (688) 8
Wolozin, B., see Luo, Y.Q. (681) 65
Wong, M.K.C., Hill, J.M. and Kaufman, M.P.
Pressor responses to stimulation of non-NMDA receptors in the superficial laminae of the cat spinal cord (683) 149
Wonnacott, S., see Barrantes, G.E. (672) 228
Woo, C.C., see Johnson, B.A. (699) 192
Woo, S.L.C., see Çolak, A. (691) 76
Wood, W.G., Igbavboa, U., Rao, A.M., Schroeder, F. and Avdulov, N.A.
Cholesterol oxidation reduces Ca^{2+} + Mg^{2+}-ATPase activity, interdigitation, and increases fluidity of brain synaptic plasma membranes (683) 36
Woodruff, G.N., see Maneuf, Y.P. (683) 102
Woods, A.G., Cribbs, D.H., Whittemore, E.R. and Cotman, C.W.
Heparan sulfate and chondroitin sulfate glycosaminoglycan attenuate β-amyloid(25–35) induced neurodegeneration in cultured hippocampal neurons (697) 53
Woodside, B., Robinson, B. and Amir, S.
Induction of Fos protein in a model of closed head injury in rats (690) 48
Woodward, D.J., see Lee, R.-S. (687) 1
Woodward, D.J., see Lee, R.-S. (687) 12
Woodward, W.R., see McCall, A.L. (670) 29
Wotjak, C.T., see Kalsbeek, A. (682) 75
Woudenberg, M.C., see Benington, J.H. (692) 86
Wouterlood, F.G. and Härtig, W.
Calretinin-immunoreactivity in mitral cells of the rat olfactory bulb (682) 93
Wozniak, D.F., see Fix, A.S. (696) 194
Wozniak, D.F., see Stewart, G.R. (695) 81
Wright, J.W., see Roberts, K.A. (682) 13
Wu, G., Kim, H.K. and Zornow, M.H.
Transient brain ischemia in rabbits: the effect of ω-conopeptide MVIIC on hippocampal excitatory amino acids (692) 118
Wu, G.-C., see Bronstein, D.M. (704) 112
Wu, J., see Ichihara, N. (695) 173

Wu, M.-C., see Azzazy, H.M.E. (695) 231
Wu, T., Li, A. and Wang, H.-L.
Neurotensin increases the cationic conductance of rat substantia nigra dopaminergic neurons through the inositol 1,4,5-trisphosphate-calcium pathway (683) 242
Wu, W.-H., see Brightman, T. (678) 110
Wustrow, D.J., see Banks, W.A. (695) 59
Wyse, B., Greenland, K. and Sernia, C.
Specific binding sites for (3-8)angiotensin in C6 glioma cells (681) 41

X

Xia, Y., Warshaw, J.B. and Haddad, G.G.
Chronic hypoxia causes opposite effects on glucose transporter 1 mRNA in mature versus immature rat brain (675) 224
Xie, C.W. and Lewis, D.V.
Depression of LTP in rat dentate gyrus by naloxone is reversed by $GABA_A$ blockade (688) 56
Xie, W.-j., see Le, W.-D. (686) 49
Xie, Y.-f., see Yang, S.-w. (673) 170
Xie, Z. and Sastry, B.R.
Impairment of long-term potentiation in rats fed with vitamin E-deficient diet (681) 193
Xu, B., Li, B.-H., Rowland, N.E. and Kalra, S.P.
Neuropeptide Y injection into the fourth cerebroventricle stimulates c-Fos expression in the paraventricular nucleus and other nuclei in the forebrain: effect of food consumption (698) 227
Xu, F. and Frazier, D.T.
Medullary respiratory neuronal activity modulated by stimulation of the fastigial nucleus of the cerebellum (705) 53
Xu, X.-J., Zhang, X., Hökfelt, T. and Wiesenfeld-Hallin, Z.
Plasticity in spinal nociception after peripheral nerve section: reduced effectiveness of the NMDA receptor antagonist MK-801 in blocking wind-up and central sensitization of the flexor reflex (670) 342
Xuereb, J.H., see Ginsberg, L. (698) 223

Y

Yablonsky-Alter, E., see Lidsky, T.I. (686) 104
Yagi, H., see Umezawa, M. (669) 225
Yaksh, T.L., see Bach, F.W. (690) 167
Yaksh, T.L., see Bach, F.W. (701) 192
Yamada, H., Fujimoto, K.-i. and Yoshida, M.
Neuronal mechanism underlying dystonia induced by bicuculline injection into the putamen of the cat (677) 333
Yamada, H., Komiyama, A. and Suzuki, K.
Schwann cell responses to forskolin and cyclic AMP analogues: comparative study of mouse and rat Schwann cells (681) 97
Yamada, H., see Iwai, T. (671) 305
Yamada, K., see Shibasaki, T. (670) 169
Yamada, M., see Mizuguchi, M. (697) 235
Yamada, N., see Sato, K. (683) 279
Yamada, T., Kawaguchi, N., Hosokawa, M. and Satoh, T.
Localization of an isoform of carboxylesterase in rat brain differs from that in human brain (674) 175
Yamada, T., see Saito, T. (697) 276
Yamada, T., see Yamamoto, T. (677) 89
Yamada, Y. and Haraguchi, N.
Reflex changes in the masticatory muscles with load perturbations during chewing hard and soft food (669) 86
Yamadori, T., see Dong, K. (703) 231
Yamadori, T., see Farid Ahmed, A.K.M. (674) 275
Yamadori, T., see Farid Ahmed, A.K.M. (704) 307
Yamagami, K., see Joseph, J.A. (673) 185
Yamagata, K., see Cao, C. (697) 187
Yamagata, M., see Tohgi, H. (700) 245
Yamaguchi, T., Suzuki, M. and Yamamoto, M.
YM796, a novel muscarinic agonist, improves the impairment of learning behavior in a rat model of chronic focal cerebral ischemia (669) 107
Yamaguchi, Y., see Yates, B.J. (689) 197
Yamamori, Y., Kishikawa, K. and Collins, J.G.
Halothane effects on low-threshold receptive field size of rat spinal dorsal horn neurons appear to be independent of supraspinal modulatory systems (702) 162
Yamamoto, B.K., see Stephans, S.E. (700) 99
Yamamoto, C., see Ohno-Shosaku, T. (705) 337
Yamamoto, M., see Tojo, H. (669) 163
Yamamoto, M., see Yamaguchi, T. (669) 107
Yamamoto, T. and Nozaki-Taguchi, N.
Zinc protoporphyrin IX, an inhibitor of the enzyme that produces carbon monoxide, blocks spinal nociceptive transmission evoked by formalin injection in the rat (704) 256
Yamamoto, T., Kakehata, S., Yamada, T., Saito, T., Saito, H. and Akaike, N.
Caffeine rapidly decreases potassium conductance of dissociated outer hair cells of guinea-pig cochlea (677) 89
Yamamoto, T., see Ikeda, M. (690) 225
Yamamoto, T., see Nakagawa, H. (690) 236
Yamamoto, T., see Nishimura, Y. (702) 213
Yamamoto, T., see Saito, T. (697) 276
Yamamoto, T., see Shimura, T. (679) 221
Yamamoto, Y., see Shibata, S. (670) 337
Yamamuro, Y., Hori, K., Tanaka, J., Iwano, H. and Nomura, M.
Septo-hippocampal cholinergic system under the discrimination learning task in the rat: a microdialysis study with the dual-probe approach (684) 1
Yamaoka, S., see Watanabe, K. (684) 179
Yamasaki, Y., see Onodera, H. (684) 95
Yamashita, H., see Inenaga, K. (705) 85
Yamashita, H., see Ueta, Y. (677) 221
Yamashita, H., see Zhang, Y.-X. (691) 205
Yamashita, J., see Ikeda, K. (688) 171
Yamashita, T., see Kawakami, N. (697) 104
Yamashita, T., see Nakagawa, H. (690) 236
Yamauchi, Y., see Matsuo, R. (689) 289
Yamawaki, S., see Kugaya, A. (682) 151
Yamazaki, K., see Ichihara, N. (695) 173
Yamazaki, T., see Tsutsui, K. (678) 1
Yamazaki, T., see Usui, M. (678) 10
Yamazaki, Y., see Mizutani, Y. (693) 95
Yamuy, J., see López-Rodríguez, F. (699) 201
Yan, S., Zhang, C., Laferrière, A. and Moss, I.R.
Met-enkephalin-like immunoreactivity in microdialysates from nucleus tractus solitarii in piglets during normoxia and hypoxia (687) 217
Yan, X.X., Jen, L.S. and Garey, L.J.
Spatial periodicity of NADPH-diaphorase and synaptophysin, but not SNAP-25, reactivity in the monkey cerebellar cortex (669) 285
Yancey, P.H., see Trachtman, H. (693) 155
Yang, C.-H., see Hsu, K.-S. (690) 264
Yang, C.-S., Lin, N.-N., Liu, L., Tsai, P.-J. and Kuo, J.-S.
Lowered brain glutathione by diethylmaleate decreased the glutamate release induced by cerebral ischemia in anesthetized rats (698) 237
Yang, J., see Yu, A. (688) 209
Yang, Q., Hamberger, A., Hyden, H., Wang, S., Stigbrand, T. and Haglid, K.G.
S-100β has a neuronal localisation in the rat hindbrain revealed by an antigen retrieval method (696) 49
Yang, Q.Z., Smithson, K.G. and Hatton, G.I.
NMDA and non-NMDA receptors on rat supraoptic nucleus neurons activated monosynaptically by olfactory afferents (680) 207
Yang, R., see Lippmann, B.J. (686) 29
Yang, S.-N., see Fior, D.R. (679) 168
Yang, S.-w., Chen, J.-y., Zhang, Z.-h., Xie, Y.-f., Qiao, J.-t. and Dafny, N.
Adenosine and opiate-like substances mediates antinociception at the spinal cord (673) 170
Yang, S.T., see Wang, Y. (693) 233
Yang, W., see Luo, Y. (687) 191
Yang, X.-R., see Kenessey, A. (675) 183
Yang, Z. and Lim, A.T.
Progesterone, but not estrogen, modulates the cAMP system mediated ir-β-endorphin

secretion and POMC mRNA expression from rat hypothalamic cells in culture (678) 251
Yang, Z., Copolov, D.L. and Lim, A.T.
Glutamate enhances the adenylyl cyclase-cAMP system-induced beta-endorphin secretion and POMC mRNA expression in rat hypothalamic neurons in culture: NMDA receptor-mediated modulation (692) 129
Yao, J., Kitt, C. and Reeves, R.H.
Chronic elevation of S100β protein does not alter APP mRNA expression or promote β-amyloid deposition in the brains of aging transgenic mice (702) 32
Yao, N.N.L., see Tracey, D.J. (669) 245
Yao, T., see Dai, W.-J. (676) 178
Yashpal, K., Pitcher, G.M. and Henry, J.L.
Noxious peripheral stimulation produces antinociception mediated via substance P and opioid mechanisms in the rat tail-flick test (674) 97
Yasuda, R.P., Ikonomovic, M.D., Sheffield, R., Rubin, R.T., Wolfe, B.B. and Armstrong, D.M.
Reduction of AMPA-selective glutamate receptor subunits in the entorhinal cortex of patients with Alzheimer's disease pathology: a biochemical study (678) 161
Yasuhara, O., see Walker, D.G. (675) 75
Yasui, Y., Tsumori, T., Ando, A. and Domoto, T.
Demonstration of axon collateral projections from the substantia nigra pars reticulata to the superior colliculus and the parvicellular reticular formation in the rat (674) 122
Yasui, Y., see Shiroyama, T. (704) 130
Yatani, A., see Ishibashi, H. (695) 88
Yates, B.J., Balaban, C.D., Miller, A.D., Endo, K. and Yamaguchi, Y.
Vestibular inputs to the lateral tegmental field of the cat: potential role in autonomic control (689) 197
Yates, P., see Privitera, P.J. (704) 103
Yavari, P., see Panneton, W.M. (691) 37
Ye, J.-H., see Brightman, T. (678) 110
Yeh, E.R., see Kreisman, N.R. (693) 179
Yen, S.-H., see Kenessey, A. (675) 183
Yeoh, K.-H., see Ruan, R.-S. (698) 163
Yeomans, D.C., Cooper, B.Y. and Vierck, Jr., C.J.
Comparisons of dose-dependent effects of systemic morphine on flexion reflex components and operant avoidance responses of awake non-human primates (670) 297
Yeomans, J.S., see Frankland, P.W. (670) 97
Yin, H.-z., Park, D.D., Lindsay, A.D. and Weiss, J.H.
Spinal cord neurons are vulnerable to rapidly triggered kainate neurotoxicity in vitro (689) 265
Yokel, R.A., see Pettigrew, L.C. (691) 243
Yokosuka, M., see Orikasa, C. (693) 112
Yokota, T., see Saito, Y. (694) 200
Yokotani, K., see Tamura, N. (676) 363
Yokoyama, C., Okamura, H. and Ibata, Y.
Dopamine D_2-like receptors labeled by [^{3}H]YM-09151-2 in the rat hippocampus: characterization and autoradiographic distribution (681) 153
Yokoyama, M., see Kobari, M. (698) 95
Yoneda, Y., Han, D., Ogita, K. and Watanabe, A.
Distinction between binding of [^{3}H]triamcinolone acetonide to a ligand binding domain on the glucocorticoid receptor complex in cytosol fractions of brain and liver from the rat with intact adrenals (685) 105
Yoneda, Y., Ogita, K., Enomoto, R., Kojima, S., Shuto, M., Shirahata, A. and Samejima, K.
Search for novel ligands selective at a polyamine recognition domain on the *N*-methyl-D-aspartate receptor complex using membrane binding techniques (679) 15
Yonehara, S., see Nishimura, T. (695) 137
Yonezawa, A., see Tadano, T. (696) 21
Yoon, K.-W.
Glutamate effect on synaptic transmission mediates neurotoxicity in dissociated rat hippocampal neurons (669) 320
York, D.A., see Barton, C. (702) 55
Yoshida, K., see Ohki, K. (696) 140
Yoshida, M., see Hanyu, S. (686) 44
Yoshida, M., see Yamada, H. (677) 333
Yoshida, T., see Aoki, M. (669) 189
Yoshida, T., see Tsuzuki, K. (699) 260
Yoshii, T., see Nakagawa, Y. (681) 126
Yoshii, T., see Nakagawa, Y. (683) 209
Yoshikawa, D., see Saito, S. (673) 93
Yoshikawa, T., see Skarlatos, S. (683) 164
Yoshimi, N., see Hara, A. (697) 247
Yoshimoto, Y., Lin, Q., Collier, T.J., Frim, D.M., Breakefield, X.O. and Bohn, M.C.
Astrocytes retrovirally transduced with BDNF elicit behavioral improvement in a rat model of Parkinson's disease (691) 25
Yoshimura, M., see Shimizu, T. (691) 92
Yoshimura, M., see Tohgi, H. (700) 245
Yoshino, A., see Kawamata, T. (674) 196
Yoshino, M. and Kamiya, H.
Suppression of presynaptic calcium influx by metabotropic glutamate receptor agonists in neonatal rat hippocampus (695) 179
Yoshiura, T., Ueno, S., Iramina, K. and Masuda, K.
Source localization of middle latency auditory evoked magnetic fields (703) 139
Yoshiyama, M., Roppolo, J.R. and De Groat, W.C.
Effects of GYKI 52466 and CNQX, AMPA/kainate receptor antagonists, on the micturition reflex in the rat (691) 185
Yospin, J., see Lu, X. (669) 35
Young, C., see Iyer, V.G. (689) 159
Young, S.J., see Mura, A. (704) 51
Youngentob, S.L. and Kent, P.F.
Enhancement of odorant-induced mucosal activity patterns in rats trained on an odorant identification task (670) 82
Yu, A., Yang, J., Pawlyk, A.C. and Tejani-Butt, S.M.
Acute depletion of serotonin down-regulates serotonin transporter mRNA in raphe neurons (688) 209
Yu, C. and Crutcher, K.A.
Nerve growth factor immunoreactivity and sympathetic sprouting in the rat hippocampal formation (672) 55
Yu, J., Pizzo, D.P., Hutton, L.A. and Perez-Polo, J.R.
Role of the cholinergic system in the regulation of neurotrophin synthesis (705) 247
Yu, L., see Lane, C.M. (698) 15
Yu, L., see Liang, Y. (679) 82
Yu, L.-C., Hansson, P. and Lundeberg, T.
Opioid antagonists naloxone, β-funaltrexamine and naltrindole, but not nor-binaltorphimine, reverse the increased hindpaw withdrawal latency in rats induced by intrathecal administration of the calcitonin gene-related peptide antagonist $CGRP_{8-37}$ (698) 23
Yu, W. and Miller, R.F.
NBQX, an improved non-NMDA antagonist studied in retinal ganglion cells (692) 190
Yuan, B., see Zhang, Y.-Q. (696) 205
Yuasa, T., see Kuwabara, T. (670) 326
Yuasa, T., see Saito, Y. (694) 200
Yukhananov, R.Yu., see Kreeger, J.S. (672) 83
Yurdaydin, C., Walsh, T.J., Engler, H.D., Ha, J.-H., Li, Y., Jones, E.A. and Basile, A.S.
Gut bacteria provide precursors of benzodiazepine receptor ligands in a rat model of hepatic encephalopathy (679) 42
Yurek, D.M., see Steece-Collier, K. (676) 404
Yuyama, N., see Kajiwara, K. (671) 170

Z

Zadina, J.E., see Maness, L.M. (700) 83
Zagon, A., see Terenzi, M.G. (701) 183
Zagon, I.S., Sassani, J.W., Allison, G. and McLaughlin, P.J.
Conserved expression of the opioid growth factor, [Met^5]enkephalin, and the zeta (ζ) opioid receptor in vertebrate cornea (671) 105
Zagon, I.S., see Clark, M.B. (700) 308
Zahm, D.S., see Tan, Y. (689) 151
Zahniser, N.R., see Gould, T.J. (684) 150
Zaloga, C., see Zhang, R.-L. (682) 182
Zamboni, G., see Perez, E. (684) 56
Zampolini, M., see Grassi, S. (699) 183
Zardetto-Smith, A.M., see Travis, K.A. (686) 17

Zatz, M., see Wolfe, M.S. (669) 100
Zecevic, D., see Kogan, A. (700) 235
Zee, P.C., see Penev, P.D. (669) 207
Zeeberg, B.R., see Gitler, M.S. (687) 71
Zeeberg, B.R., see Gitler, M.S. (704) 151
Zelenin, P.V., see Panchin, Y.V. (669) 315
Zeller, K., Duelli, R., Vogel, J., Schröck, H. and Kuschinsky, W.
Autoradiographic analysis of the regional distribution of Glut3 glucose transporters in the rat brain (698) 175
Zelles, T., see Kiss, J.P. (674) 238
Zhang, C., Bachoo, M., Morales, M., Collier, B. and Polosa, C.
The site of the inhibitory action of endogenous opioids in the superior cervical ganglion of the cat (683) 59
Zhang, C., see Yan, S. (687) 217
Zhang, L., Kokkonen, G. and Roth, G.S.
Identification of neuronal programmed cell death in situ in the striatum of normal adult rat brain and its relationship to neuronal death during aging (677) 177
Zhang, L., see Fan, P. (673) 181
Zhang, Q., Shi, T.-J., Ji, R.-R., Zhang, Y.-t., Sundler, F., Hannibal, J., Fahrenkrug, J. and Hökfelt, T.
Expression of pituitary adenylate cyclase-activating polypeptide in dorsal root ganglia following axotomy: time course and coexistence (705) 149
Zhang, R., see Hisano, S. (676) 409
Zhang, R.-L., Chopp, M., Zaloga, C., Zhang, Z.G., Jiang, N., Gautam, S.C., Tang, W.X., Tsang, W., Anderson, D.C. and Manning, A.M.
The temporal profiles of ICAM-1 protein and mRNA expression after transient MCA occlusion in the rat (682) 182
Zhang, R.L., see Zhang, Z.G. (698) 79
Zhang, W., see Luo, Y. (687) 191
Zhang, X., see Xu, X.-J. (670) 342
Zhang, X.-Q., Pang, L. and Eyzaguirre, C.
Effects of hypoxia on the intracellular K^+ of clustered and isolated glomus cells of mice and rats (676) 413
Zhang, Y., see Stone, E.A. (694) 279
Zhang, Y.-Q., Tang, J.-S., Yuan, B. and Jia, H.
Inhibitory effects of electrical stimulation of thalamic nucleus submedius area on the rat tail flick reflex (696) 205
Zhang, Y.-t., see Zhang, Q. (705) 149
Zhang, Y.-X., Yamashita, H., Ohshita, T., Sawamoto, N. and Nakamura, S.
ATP increases extracellular dopamine level through stimulation of P_{2Y} purinoceptors in the rat striatum (691) 205
Zhang, Z., see Hyslop, P.A. (671) 181
Zhang, Z.-h., see Yang, S.-w. (673) 170
Zhang, Z.G., Chopp, M., Tang, W.X., Jiang, N. and Zhang, R.L.
Postischemic treatment (2–4 h) with anti-CD11b and anti-CD18 monoclonal antibodies are neuroprotective after transient (2 h) focal cerebral ischemia in the rat (698) 79
Zhang, Z.G., see Zhang, R.-L. (682) 182
Zhang, Z.J., see Saito, T. (697) 276
Zhao, D.C., see Leung, L.S. (697) 262
Zhao, H.B., Parham, K., Ghoshal, S. and Kim, D.O.
Small neurons in the vestibular nerve root project to the marginal shell of the anteroventral cochlear nucleus in the cat (700) 295
Zhao, Q., see Danielsen, N. (681) 105
Zhao, Q., see Memezawa, H. (670) 48
Zhao, S., Thornquist, S.C. and Barnstable, C.J.
In vitro transdifferentiation of embryonic rat retinal pigment epithelium to neural retina (677) 300
Zhao, W., see Takagi, K. (691) 160
Zhao, X., see Whitson, J.S. (694) 213
Zhen, S. and Gallo, R.V.
The role of norepinephrine in mediating luteinizing hormone release in response to blockade of κ-opioid receptors in the medial preoptic area (698) 121
Zhong, S., Gebber, G.L. and Barman, S.M.
Differential relationships among 10-Hz rhythmic discharges of sympathetic nerves with different targets depend on supraspinal rather than spinal mechanisms (670) 329
Zhou, F.C., see Rivkees, S.A. (677) 193
Zhou, G.-Y., see Singewald, N. (704) 42
Zhou, J., see Allen, G.V. (680) 117
Zhou, J.-N., Hofman, M.A. and Swaab, D.F.
No changes in the number of vasoactive intestinal polypeptide (VIP)-expressing neurons in the suprachiasmatic nucleus of homosexual men; comparison with vasopressin-expressing neurons (672) 285
Zhu, B.-S., see Gieroba, Z.J. (675) 329
Zhu, X.O. and Brown, M.W.
Changes in neuronal activity related to the repetition and relative familiarity of visual stimuli in rhinal and adjacent cortex of the anaesthetised rat (689) 101
Zieglgänsberger, W., see Ebersberger, A. (676) 336
Zimmer, W.E., see Clark, M.B. (700) 308
Zochodne, D.W., Murray, M.M., Van der Sloot, P. and Riopelle, R.J.
Distal tibial mononeuropathy in diabetic and nondiabetic rats reared on wire cages: an experimental entrapment neuropathy (698) 130
Zoli, M., see Li, X.-M. (679) 157
Zorad, S., see Seltzer, A.M. (705) 24
Zornow, M.H., see Wu, G. (692) 118
Zsilla, G., see Kiss, J.P. (674) 238
Zuber, M.X., see Shain, D.H. (697) 241
Zuck, L.G., see Lidsky, T.I. (686) 104
Zupanc, G.K.H., see Stroh, T. (674) 1
Zurcher, C., see De Lange, E.C.M. (702) 261
Zurich, M.-G., see Monnet-Tschudi, F. (690) 8
Zuschratter, W., see Seidel, B. (700) 13

BRAIN RESEARCH
AUTHOR INDEX
1995
VOLUMES 669–705

A

α_{1A} and α_{1B} subtype
α_1-Adrenergic receptor; Noradrenaline; Cerebral cortex; Autoradiography; Seizure; Kindling; Epilepsy (Gundlach, A.L. (672) 214)

Aβ
Amyloid; Alzheimer's disease; Synthetic peptide; Antibody; Conformation (Kametani, F. (703) 237)

β/A4 bearing carboxy-terminal peptide
Alzheimer's disease; Amyloid precursor protein; β-Amyloid proteins (β/A4); Senile plaque; Neurofibrillary tangle; Electron microscopy; Al^{3+} (Chong, Y.-H. (670) 137)

Aberrant synapse
Frog; Nerve transplantation; Cross-modality rewiring; Alternative specificity; Neural plasticity (Scalia, F. (685) 187)

Abnormal posture
U50,488H; σ binding site; Haloperidol; Reduced haloperidol; Guinea-pig (Brent, P.J. (684) 115)

Abuse
γ-Hydroxybutyrate; Prefrontal cortex; Electrophysiology; Dopamine; Sleep; Narcolepsy; Alcohol (Godbout, R. (673) 157)

A2-Catecholaminergic cell group
Calcitonin gene-related peptide; Tyrosine hydroxylase; Double immunohistochemistry; Nucleus of the solitary tract (Fodor, M. (690) 141)

Accessory olfactory bulb
Extracellular single unit recording; Synaptic response; Glutamate antagonist; Mitral cell (Dudley, C.A. (675) 208)

G protein; Opossum; *Monodelphis domestica*; Differential localization; Vomeronasal organ (Halpern, M. (677) 157)

Accessory olfactory system
Vole; Female; Estrus; Olfaction; c-*fos* (Moffatt, C.A. (677) 82)

Accessory optic system
Nucleus of the basal optic root; Serotonin; Subcortical visual pathways (Toledo, C.A.B. (705) 341)

Acclimatization
Ion channel; Patch clamp; Tetrodotoxin; Glomus; Chemoreceptor; Oxygen (Hempleman, S.C. (699) 42)

Accumbens
Amygdala; Cocaine; Dopamine D1; Reinforcement; SCH 23390; Self-administration; Striatum (Caine, S.B. (692) 47)

Acea 1021
Glutamate; Glycine; *N*-Methyl-D-aspartate receptor; Glycine site; Ischemia; Organotypic hippocampal cultures; 7-Chlorokynurenic acid; MK-801 (Newell, D.W. (675) 38)

Acetic acid
Visceral; Nociception; Colon; Colorectal distension; Inflammation (Burton, M.B. (672) 77)

Acetylcholine
Middle cerebral artery; Cerebral ischemia; Muscarinic agonist; Behavior; Rat (Yamaguchi, T. (669) 107)

Control of breathing; Isolated brainstem; 3-Bromopyruvate; Hydroxycitrate; Citrate; Triethylcholine; Atropine (Burton, M.D. (670) 39)

High affinity choline uptake; Diencephalic amnesia; Hippocampus; Cortex (Béracochéa, D.J. (670) 53)

Sleep–waking cycle; Microdialysis; Electroencephalogram; Hippocampus; Theta wave; Cat (Marrosu, F. (671) 329)

Associative LTP; CA1 region; Atropine; Synaptic plasticity; Hippocampus; Rat (Sokolov, M.V. (672) 281)

Ischemia; Pentobarbital; Brain dialysis; Choline acetyltransferase; Delayed neuronal death; Hippocampus; Gerbil (Ishimaru, H. (673) 112)

Permanent occlusion of bilateral common carotid artery; Infarction; Rarefaction; Ischemia; Rat (Ni, J.-W. (673) 290)

Dopamine; Prefrontal cortex; Rat; Delayed-matching-to-position; Short-term memory (Broersen, L.M. (674) 221)

Cognition-enhancing; Aging; Nicotine; Nicotinic agonist; Rat; Age-associated memory impairment (Arendash, G.W. (674) 252)

Dopamine release; Dopamine D_2-receptor; Quinpirole; Sulpiride; Hyperkinesis (Russell, V. (676) 343)

Neurokinin B; Nucleus basalis; Aging; Lesion (Wenk, G.L. (679) 8)

Taste; Microdialysis; Insular cortex; Quinine; Taste aversion; Rat (Shimura, T. (679) 221)

D_1-Dopamine agonist; Glutamate; Reserpine; Supersensitivity; Striatum; In vitro (Login, I.S. (681) 209)

Axoplasmic transport; Adrenaline; Desensitization; Superior cervical ganglion; Organelle motion; Axonal transport control (Kawakami, T. (683) 88)

Discrimination learning; Hippocampus; Septum; Dopamine; Microdialysis; Dual probe; Rat (Yamamuro, Y. (684) 1)

Muscarine; Atropine; slow EPSP; Alcohol; Electrophysiology; Intracellular recording; Eserine (Madamba, S.G. (685) 21)

Rostral ventrolateral medulla; Physostigmine; Carbachol; Pressor response; Acetylcholine release (Kubo, T. (686) 1)

σ_1 Receptor; Hippocampus; SKF-10,047 (*N*-allylnormetazocine); Haloperidol; Amnesia; Stereoselectivity; Rat (Matsuno, K. (690) 200)

AF-DX 116; Brain slice; Carbachol; Estrogen; 4-DAMP; M3; McN-A-343; Muscarinic receptor subtype; Oxotremorine-M; *p*-F-HHSiD; Pirenzepine; Single-unit activity (Kow, L.-M. (694) 29)

Calcium; Dissociated cell; Fractional efflux; Glutamate; High-performance liquid chromatography; Striatum (Login, I.S. (697) 271)

Prejunctional inhibition; ω-Conotoxin; Nitroxidergic nerve; Vasoactive intestinal polypeptide; Magnesium (Toda, N. (700) 213)

Auditory evoked potential; Middle-latency response; Scopolamine; Rat (Campbell, K.A. (702) 110)

Acetylcholine-pharmacology
Sleep cycle; State transition; Fourier analysis; Serotonin-pharmacology; Norepinephrine-pharmacology (Benington, J.H. (681) 141)

Acetylcholine receptor
Parasympathetic neuron; α-Bungarotoxin; Neuronal bungarotoxin; Cardiac ganglion (Sargent, P.B. (680) 99)

Acetylcholine release
Dopamine release; Retina; ω-Conotoxin GVIA; ω-Conotoxin MVIIC; ω-Agatoxin IVA (Tamura, N. (676) 363)

Acetylcholine; Rostral ventrolateral medulla; Physostigmine; Carbachol; Pressor response (Kubo, T. (686) 1)

Synaptic vesicle exocytosis; Clostridial neurotoxin; Synaptosome; *Torpedo*; Neuromuscular junction; Miniature end plate current; VAMP/synaptobrevin (Herreros, J. (699) 165)

Vesamicol; 4-Aminobenzovesamicol; (*trans*)-Cyclohexovesamicol; Synaptic vesicle; Vesicular transport (Leão, R.M. (703) 86)

Atropine; CP 93129; Fimbria-fornix; Hippocampus; Mecamylamine; Methiothepin; 2-methyl-Serotonin; Oxotremorine; Septal graft (Cassel, J.-C. (704) 153)

Acetyl-CoA
Serotonin *N*-acetyltransferase; Arylamine *N*-acetyltransferase; Circadian rhythm; Melatonin (Wolfe, M.S. (669) 100)

Acetyl-L-carnitine
Brain energy metabolism; Streptozotocin; Spatial learning; Choline acetyltransferase; Animal model; Neurodegeneration; Alzheimer's disease (Prickaerts, J. (674) 142)

3-Acetylpyridine
Inferior olivary complex; Olivocerebellar pathway; Equilibrium behavior; Learning; Rat (Jones, N. (697) 216)

***N*-Acetylserotonin**
Intergeniculate leaflet; Pineal gland; Deep pineal; Lamina intercalaris; Circadian rhythm (Cipolla-Neto, J. (691) 133)

AChE
Barrel; Development; Thalamic axon (Bennett-Clarke, C.A. (702) 255)

ACh release
L-DOPA; Parkinson's disease; Microdialysis; 6-Hydroxydopamine; Supersensitization (Ueda, H. (698) 213)

Acidosis
Carbonic anhydrase; Mutant mouse; *N*-Methyl-D-aspartate receptor; Long-term potentiation (Velíšek, L. (671) 245)

Acid phosphatase
Low molecular weight; Antibody; Protein level; Activity; Alzheimer's disease (Shimohama, S. (699) 125)

Acinetobacter
Benzodiazepine receptor; Hepatic encephalopathy; Antibiotic; Rat; Brain (Yurdaydin, C. (679) 42)

Acoustic reflex
Evoked otoacoustic emission; Medial olivocochlear efferent; Vestibular neurotomy (Giraud, A.L. (705) 15)

Acoustic startle response
β-Alanine; Glycine receptor; Habituation; Hyperekplexia; Prepulse inhibition; Rat; Strychnine (Koch, M. (671) 63)

ACPC
Seizure; Glutamate; Glycine; 5,7-Dichlorokynurenic acid; (+)HA-966; D-CPP; AP7; Dizocilpine; Strychnine (Peterson, S.L. (702) 101)

ACPD
Purkinje neuron; Cerebellum; Ethanol; Alcohol; Quisqualate; Glutamate; Culture (Netzeband, J.G. (688) 105)

(1S,3S)-ACPD
Presynaptic glutamate receptor; Glutamate release; Kindling; Epileptogenesis; Seizures; D-CPPene; D-CPP (Attwell, P.J.E. (698) 155)

Acromelic acid
Kainic acid; AMPA; Excitatory amino acid; Glutamate receptor; Neurotoxicity; Spastic paraplegia; Spinal cord (Kwak, S. (702) 61)

Acrylamide
Neurofilament; CaM kinase II; Phosphorylation; Glycidamide; Cytoskeletal protein (Reagan, K.E. (671) 12)

ACTH
Corticotropin-releasing factor; Arginine vasopressin; Oxytocin; Corticosterone (Romero, L.M. (676) 151)

Corticotropin releasing factor; Dexamethasone; IL-1 receptor; Pituitary; Stress (Takao, T. (688) 219)

Herpes simplex virus type 1; Neurotropism; Corticosterone; Corticotropin releasing factor-41 (Ben-Hur, T. (702) 17)

Actin-related proteins
Tubulin; Microtubule-associated proteins; *Drosophila* (Srinivasan, S. (701) 39)

Action potential
Aplysia; Protein kinase C; Phorbol diacetate; H-7 (Papp, A. (684) 107)

Graded impulse; Anterior hypothalamus; Preoptic area; Slice preparation; Patch-clamp (Johansson, S. (700) 240)

Trisomy 16 mouse; Down's syndrome; Septum; Neuron culture; Membrane current (Acevedo, L.D. (701) 89)

Action potential shortening vs. prolongation
Peptide blockers of excitatory opioid receptor function; [des-Tyr^1]dynorphin A-(1-13); β-Endorphin-(1-27); Dorsal root ganglion neuron; Bimodal agonist action of endogenous opioid (Shen, K.-F. (673) 30)

Peptide antagonist excitatory opioid receptor; Dual opioid inhibitory-agonist/excitatory-antagonist; Etorphine (Shen, K.-F. (701) 158)

Active immunization
Allograft; Brain tissue transplantation; Dopamine neuron; Rejection; Adoptive immunization (Shinoda, M. (680) 180)

Active sleep
Muscle atonia; Microiontophoresis; Pontogeniculo-occipital; α-Chloralose; Cat (López-Rodríguez, F. (699) 201)

Active zone
Presynaptic terminal; 140-kDa polypeptide (Stieber, A. (700) 261)

Activins
Magnocellular neurosecretory system; Nucleus of the solitary tract; Paraventricular nucleus; Somatostatin; Supraoptic nucleus (Sawchenko, P.E. (694) 233)

Lateral hypothalamus; Lysine; Amino acid deficient diet; Inhibin; Follistatin; Operant behavior (Hawkins, R.L. (704) 1)

Activity
Mu-opioid; Kappa-opioid; Delta-opioid; DAMGO; U-50,488H; DPDPE; Amphetamine; VTA; Mesoaccumbens dopaminergic system; Feeding; Drinking; Hyperdipsia; Gnawing; VTA (Badiani, A. (670) 264)

c-*fos*; Hamster; Immunocytochemistry; Intergeniculate leaflet; Neuropeptide Y; Nonphotic; Rhythm; Suprachiasmatic nucleus (Janik, D. (698) 137)

Acid phosphatase; Low molecular weight; Antibody; Protein level; Alzheimer's disease (Shimohama, S. (699) 125)

Behavior; Cadmium; Cocaine; Sensitization; Toxicity (Nation, J.R. (702) 223)

A-current
Anomalous rectifier; Autonomic nervous system; Brainstem slice; Central adrenergic neuron; DiI retrograde transport; Medulla oblongata; Pacemaker neurons; Persistent sodium current; Medulla oblongata; Sympathetic nervous system; Vasomotor control (Kangrga, I.M. (670) 215)

Pattern generation; Brain slice (Hsiao, C.-f. (695) 217)

Acute
Axonal pathology; Traumatic spinal cord injury; Giant axon (Anthes, D.L. (702) 1)

Acute and chronic stress
Immobilization; Brain protein synthesis; Autoradiography; L-[^{35}S]Methionine; Rat (Giaume, M. (675) 121)

Acute cold exposure
Intracerebroventricular infusion; Metabolic rate; Bird; Brain (Montaron, A. (702) 49)

Acute inflammation
c-*fos*; Aging; Trigeminal nerve; Brainstem (Iwata, K. (678) 127)

Adaptation
Microdialysis; Noradrenaline; Paraventricular nucleus; Restraint; Tail-pinch; Desensitization; Stress (Shibasaki, T. (670) 169)

Temperature; Cold receptor; Menthol; Electrophysiological recording; Trigeminal nerve (Lundy Jr., R.F. (676) 169)

Additive and synergistic action
Fos-protein; CCK/D_2 receptor interaction; Rat nucleus accumbens (Li, X.-M. (684) 225)

Adducin
Cell membrane; Cerebellum; Cytoskeleton; Glia; Hippocampus; Monoclonal antibody; Synapse (Seidel, B. (700) 13)

Adenosine
Electroencephalography; Power spectrum; Non-REM sleep; REM sleep; Sleep-homeostasis (Landolt, H.-P. (675) 67)

Hypoxia; Hippocampus; Hyperexcitability; A_1 receptor; A_2 receptor (Doolette, D.J. (677) 127)

NGF synthesis; NGF mRNA; Astrocyte; Guanosine; GTP; Neurotrophin; ATP; Cyclic AMP (Middlemiss, P.J. (677) 152)

Adenosine receptor; Hippocampus; Cerebral cortex; Cerebellum; Striatum; Brain; Immunohistochemistry (Rivkees, S.A. (677) 193)

γ-Aminobutyric acid; Neurosteroid; Alphaxalone; Allopregnan; Purine; Hippocampus (Akhondzadeh, S. (677) 311)

Brain microdialysis; Striatum; Aging; *N*-Methyl-D-aspartate receptor; Adenosine kinase; Adenosine deaminase (Pazzagli, M. (684) 103)

Adrenergic receptor; Norepinephrine; Isoproterenol; Astrocyte; Cyclic AMP transport; Cerebral cortex; Cyclic AMP; Phosphodiesterase; Astrocyte; Secretion; Transport (Rosenberg, P.A. (692) 227)

N-Methyl-D-aspartate; Deoxycoformycin; Dilazep; Focused microwave sacrifice; Striatum; Microinjection (Delaney, S.M. (702) 72)

Hypercapnia; Hypoxia; *N*-Methyl-D-aspartate; Nitric oxide; Pial arteriole; Tetrodotoxin (Pelligrino, D.A. (704) 61)

Adenosine antagonist
Cerebral ischemia; Gerbil; CP 66,713; Chlorostyrylxanthine; CGS 15943; DPCPX; Stroke (Phillis, J.W. (705) 79)

Adenosine A_{2a} receptor
CGS 21680; Dopamine D_2 receptor; Binding affinity; Basal ganglia (Hillefors-Berglund, M. (690) 34)

Adenosine deaminase
Adenosine; Brain microdialysis; Striatum; Aging; *N*-Methyl-D-aspartate receptor; Adenosine kinase (Pazzagli, M. (684) 103)

Adenosine kinase
Adenosine; Brain microdialysis; Striatum; Aging; *N*-Methyl-D-aspartate receptor; Adenosine deaminase (Pazzagli, M. (684) 103)

Adenosine receptor
Adenosine; Hippocampus; Cerebral cortex; Cerebellum; Striatum; Brain; Immunohistochemistry (Rivkees, S.A. (677) 193)

Hyperoxia; Hyperbaric oxygen; Carbon dioxide; Methylxanthine; Seizure (Bitterman, N. (696) 250)

Adenosine release
Spinal cord (Golembiowska, K. (699) 315)

***S*-Adenosyl-methionine**
Aging; Dopamine; Muscarinic receptor; Cholesterol; Striatum (Joseph, J.A. (673) 185)

Adenovirus
Gene therapy; Herpes simplex virus; Thymidine kinase; Spinal cord tumor (Çolak, A. (691) 76)

Gene transfer; Thalamic; Cortical; Organotypic cocultures and development (Wilkemeyer, M.F. (703) 129)

Adenylate cyclase
Anorexia; Tumor; Neuropeptide Y; Experimental cancer (Chance, W.T. (691) 180)

Protein kinase C; Second messenger; Aging; Brain; Receptor autoradiography; Rat (Araki, T. (704) 227)

Adenylyl cyclase
Cyclic AMP; Cocaine; Nucleus accumbens; Sensitization; Locomotor activity; Cyclic AMP-dependent protein kinase (Miserendino, M.J.D. (674) 299)

Tubulin; G protein; Dopamine receptor; Signal transduction (Hatta, S. (704) 23)

Aδ fiber
Analgesia; Pelvic nerve; Electrical stimulation; C-fiber (Cueva-Rolón, R. (679) 267)

Adhesion
HB-GAM; Cerebellum; Heparin-binding; Migration; Differentiation (Wewetzer, K. (693) 31)

Adhesion molecule
Astrocyte; Axon regeneration; Extracellular matrix; Protease (Fok-Seang, J. (689) 207)

CD11b antibody; CD18 antibody; MCA occlusion; Rat (Zhang, Z.G. (698) 79)

Adoptive immunization
Allograft; Brain tissue transplantation; Dopamine neuron; Rejection; Active immunization (Shinoda, M. (680) 180)

Adrenalectomy
Hippocampus; Dentate gyrus; Cell death; Apoptosis; Dexamethasone (Sloviter, R.S. (682) 227)

Glucocorticoid receptor; Mineralocorticoid receptor; Serotonin; *para*-Chloroamphetamine; Fluoxetine (Novotney, S. (684) 19)

Glucocorticoid receptor; Western blotting; Binding; Hippocampus; Frontal cortex (O'Donnell, D. (687) 133)

Calbindin-D28k; Corticosterone; Dentate gyrus; Degeneration; CA1; Parvalbumin; Calcium (Krugers, H.J. (696) 89)

Serotonin; Stress; Renin; Sympathectomy; β-Antagonist (Richardson Morton, K.D. (698) 185)

Corticosterone; Interleukin-1β; RU38486; Social behaviour; Body temperature; Mouse (Goujon, E. (702) 173)

Adrenal gland
Dehydration; mRNA; CRH; Corticosterone; Paraventricular nucleus; Supraoptic nucleus (Watts, A.G. (687) 63)

Adrenaline
Brainstem; Fos; Immunocytochemistry; Luteinising hormone; Noradrenaline (Condé, G.L. (672) 68)

Axoplasmic transport; Acetylcholine; Desensitization; Superior cervical ganglion; Organelle motion; Axonal transport control (Kawakami, T. (683) 88)

Adrenal medullary graft
Parkinson's disease; Sprouting; 6-Hydroxydopamine; Retrograde transport; Dopamine uptake; Striatum (Hansen, J.T. (670) 197)

Adrenal steroid
Corticosterone; Type I; Type II receptors; Stress; Dynorphin mRNA; *N*-Methyl-D-aspartate receptor; AMPA receptor; Dentate gyrus; Mossy fiber; Stratum lucidum (Watanabe, Y. (680) 217)

Adrenergic neuron
Morphine; Ventrolateral medulla; c-fos; α-Methyl norepinephrine; Clonidine (Baraban, S.C. (676) 245)

Adrenergic receptor
Norepinephrine; Isoproterenol; Adenosine; Astrocyte; Cyclic AMP transport; Cerebral cortex; Cyclic AMP; Phosphodiesterase; Astrocyte; Secretion; Transport (Rosenberg, P.A. (692) 227)

Cardiac adenylyl cyclase; Heart; β-Adrenoceptor signaling; Heterologous sensitization/desensitization of adenylyl cyclase; Isoproterenol; Development (Giannuzzi, C.E. (694) 271)

α Adrenergic receptor
Muscle rigidity; Dexmedetomidine; Methylnaloxonium; Ketanserin; Alfentanil; Electromyography; ST91 (Weinger, M.B. (669) 10)

α_1-Adrenergic receptor
α_{1A} and α_{1B} subtype; Noradrenaline; Cerebral cortex; Autoradiography; Seizure; Kindling; Epilepsy (Gundlach, A.L. (672) 214)

α-1 Adrenergic receptor
Amygdala; Antidepressant drug; Desipramine; Norepinephrine; REM sleep (Ross, R.J. (701) 129)

α_{2A}-Adrenergic receptor
Imidazoline I_1- and I_2-receptor(s); Rilmenidine; Clonidine; Idazoxan; Autoradiography (King, P.R. (675) 264)

β-Adrenergic receptor
Cerebellum; Aging; Motor learning; Norepinephrine; Rat (Gould, T.J. (684) 150)

α-Adrenoreceptor
Single cell recording; Descending inhibition; Thermal nociception; Microiontophoresis; Monoamine; Caudal trigeminal nucleus; Medullary dorsal horn (Cahusac, P.M.B. (700) 70)

α_1-Adrenoceptor
Transplantation; Spinal cord; Noradrenaline; Quantitative autoradiography; [^{3}H]Prazosin (Roudet, C. (677) 1)

Fever; Lipopolysaccharide; Rabbit; α_2-Adrenoceptor subtype; Sympathetic nervous system; Norepinephrine (Bencsics, A. (705) 302)

α_2-Adrenoceptor
Hypothalamus; Estradiol; Thermodynamics; Signal transduction; Receptor binding; RX821002; Oxymetazoline (Karkanias, G.B. (674) 26)

Autoradiography; Nucleus tractus solitarii; Spontaneously hypertensive rat; Angiotensin II; Blood pressure; Heart rate (Fior, D.R. (679) 168)

α_2-Adrenoceptor subtype
Hippocampus; Norepinephrine release; ARC 239; BRL 44408; Microdialysis; Receptor binding (Kiss, J.P. (674) 238)

Fever; Lipopolysaccharide; Rabbit; α_1-Adrenoceptor; Sympathetic nervous system; Norepinephrine (Bencsics, A. (705) 302)

β-Adrenoceptor signaling
Adrenergic receptor; Cardiac adenylyl cyclase; Heart; Heterologous sensitization/desensitization of adenylyl cyclase; Isoproterenol; Development (Giannuzzi, C.E. (694) 271)

Adult glia
Visual deprivation; Development; Oc1; Plasticity (Hawrylak, N. (683) 187)

AF-DX 116
Acetylcholine; Brain slice; Carbachol; Estrogen; 4-DAMP; M3; McN-A-343; Muscarinic receptor subtype; Oxotremorine-M; *p*-F-HHSiD; Pirenzepine; Single-unit activity (Kow, L.-M. (694) 29)

Afferent deprivation
Cell death; Auditory system; Nucleus magnocellularis; Y10B antibody; Protein synthesis; Brain slice (Hyson, R.L. (672) 196)

Afferent pathway
Urinary bladder; Spinal cord injury; Micturition; Capsaicin (Cheng, C.-L. (678) 40)

Affinity chromatography
Sigma receptor; 3-PPP; Haloperidol; Photoaffinity labeling; Rat cerebellar receptor; Bovine cerebellar receptor (Schuster, D.I. (670) 14)

Afterhyperpolarization
Hippocampus; Pyramidal neuron; Dendrite; Calcium-dependent potassium current; Carbachol (Andreasen, M. (698) 193)

Guinea pig; Ambiguus neuron; Rectification; Ca^{2+}-mediated K^+ current; Ih; Norepinephrine; Signal-to-noise ratio (Nishimura, Y. (702) 213)

ω-Agatoxin IVA
Dopamine release; Acetylcholine release; Retina; ω-Conotoxin GVIA; ω-Conotoxin MVIIC (Tamura, N. (676) 363)

ω-Conotoxin GVIA; ω-Conotoxin MVIIC; Voltage-sensitive calcium channels; Intracellular Ca^{2+}; Hippocampal synaptosomes (Malva, J.O. (696) 242)

Age-associated memory impairment
Cognition-enhancing; Aging; Nicotine; Acetylcholine; Nicotinic agonist; Rat (Arendash, G.W. (674) 252)

Aggregating brain cell culture
Early development; Trimethyltin (TMT); Neurotoxicity; Microglia; Synaptophysin; Synapsin I; GAP-43 (Monnet-Tschudi, F. (690) 8)

Aggression
Y chromosome; Hippocampus; Mossy fiber; Mouse (Hensbroek, R.A. (682) 203)

Cocaine; Self-administration; Social stress; Sex difference; Female; Rat (Haney, M. (698) 46)

Aggressive behavior
Social isolation; Stress; Pentobarbital; Hypnotic activity; Noradrenergic system; CRF (Ojima, K. (684) 87)

Aging
Lesion; Nucleus basalis magnocellularis; Rat; Neocortex; Morphology; Plasticity (Wellman, C.L. (669) 48)

Human; Basal forebrain; Histochemistry; Nitric oxide synthase; Nitric oxide; Plasticity (Benzing, W.C. (670) 351)

Oxidative stress; Muscarinic receptor; Striatum (Joseph, J.A. (671) 73)

Blood–brain barrier; Free radical; Peroxidation (Mooradian, A.D. (671) 159)

Growth hormone-releasing factor; Binding site; Pituitary; Gpp(NH)p; Reducing agent (Lefrançois, L. (673) 39)

Dopamine; Muscarinic receptor; *S*-Adenosylmethionine; Cholesterol; Striatum (Joseph, J.A. (673) 185)

Estrogen receptor; Aromatase; Quail; Sexual behavior (Dellovade, T.L. (674) 181)

Cognition-enhancing; Nicotine; Acetylcholine; Nicotinic agonist; Rat; Age-associated memory impairment (Arendash, G.W. (674) 252)

Programmed cell death; Striatum (Zhang, L. (677) 177)

Acute inflammation; c-*fos*; Trigeminal nerve; Brainstem (Iwata, K. (678) 127)

Glutathione; Amino acid; Brain area; Liver; Malnutrition (Benuck, M. (678) 259)

Neurokinin B; Acetylcholine; Nucleus basalis; Lesion (Wenk, G.L. (679) 8)

Alzheimer's disease; Hippocampal neuron; Leak membrane conductance; Amyloid β peptide; β-sheet structure; Whole-cell voltage-clamp; Circular dichroism spectroscopy (Li, W.Y. (682) 207)

Suicide; μ-Opioid receptor; [^{3}H]Tyr-D-Ala-Gly-*N*-methyl-Phe-Gly-ol; Human brain; Depression (Gabilondo, A.M. (682) 245)

Adenosine; Brain microdialysis; Striatum; *N*-Methyl-D-aspartate receptor; Adenosine kinase; Adenosine deaminase (Pazzagli, M. (684) 103)

Cerebellum; Motor learning; Norepinephrine; Rat; β-Adrenergic receptor (Gould, T.J. (684) 150)

Amyloidosis; Apolipoprotein E; Neuropathology; Proteoglycans (Permanne, B. (685) 154)

Suprachiasmatic; Transplantation; Circadian; Neural graft; Hamster (Viswanathan, N. (686) 10)

Rat; Hippocampus; LTP; Morris water maze (Diana, G. (686) 107)

Astrocyte; Intermediate filament; Auditory brainstem nucleus; Immunohistochemistry (Jalenques, I. (686) 223)

Aminopeptidase; Excitatory amino acid; β-Amyloid peptide; Neuropeptide (Iribar, C. (687) 211)

Norepinephrine; Dopamine; Hypothalamus; Estrous cycle; Push–pull perfusion (ThyagaRajan, S. (689) 122)

α-Tocopherol; Antioxidant; Ascorbate; Cognition; Free radical; Phenyl-α-*tert*-butylnitrone; TBARS (Socci, D.J. (693) 88)

Suprachiasmatic nucleus; Vasopressin; Vasoactive intestinal polypeptide; Light intensity; Immunocytochemistry (Lucassen, P.J. (693) 261)

Circadian rhythm; Suprachiasmatic nucleus (Watanabe, A. (695) 237)

Nerve regeneration; Sudomotor axon; Motor axon; Sciatic nerve; Nerve repair (Verdú, E. (696) 76)

Retina; Müller cell; Photoreceptor cell; Fischer 344 rat (DiLoreto Jr., D.A. (698) 1)

Caudate putamen; Olfactory tubercle; Oxytocin receptor; Rat brain; Testosterone; Ventromedial hypothalamic nucleus (Arsenijevic, Y. (698) 275)

F344 rat; Fast axoplasmic transport; Sciatic nerve (Jacob, J.M. (699) 154)

Hippocampus; Glucocorticoid receptor; Thyroid hormone receptor; Androgen receptor; Estrogen receptor; Hybridization, in situ histochemistry (Tohgi, H. (700) 245)

Hippocampal cholinergic neurostimulating peptide; Hippocampal cholinergic neurostimulating peptide precursor protein; Radioimmuno-assay; High-performance liquid chromatography; Nervous system (Ojika, K. (701) 19)

Protein kinase C; Adenylate cyclase; Second messenger; Brain; Receptor autoradiography; Rat (Araki, T. (704) 227)

Cerebral amyloid angiopathy; Dog; Morphometry; Ultrastructure; Smooth muscle cell (Wegiel, J. (705) 225)

Agonist–antagonist
N-Methyl-D-aspartate receptor complex; Polyamine recognition domain; bis-(3-Aminopropyl)nonanediamine; Multiplicity (Yoneda, Y. (679) 15)

AIDS
N-Methyl-D-aspartate; Neurotoxicity; Hydroxamate (Lockhart, B.P. (670) 313)

Oxytocin; Paraventricular nucleus; Hybridization, in situ; Human brain; Immunocytochemistry (Guldenaar, S.E.F. (700) 107)

Airway
Phrenic; Hypoglossal; Control of breathing (Di Pasquale, E. (695) 271)

Airway smooth muscle
Autonomic nervous system; Pneumotaxic center (Motekaitis, A.M. (671) 314)

Al^{3+}
Alzheimer's disease; Amyloid precursor protein; β-Amyloid proteins (β/A4); β/A4 bearing carboxy-terminal peptide; Senile plaque; Neurofibrillary tangle; Electron microscopy (Chong, Y.-H. (670) 137)

β-Alanine
Acoustic startle response; Glycine receptor; Habituation; Hyperekplexia; Prepulse inhibition; Rat; Strychnine (Koch, M. (671) 63)

[D-Ala^2,NMe-Phe^4,Gly-ol]-Enkephalin
Desensitization; Tolerance; Dentate gyrus; Opioid; Mu receptor; DAMGO; Interneuron (Mayer, J.H. (686) 134)

Albumin
Retrograde axonal transport; Transferrin; Transferrin receptor; Lysosome; Motor neuron; Ultrastructure; Toxic metal; Amyotrophic lateral sclerosis; Rat (Moos, T. (672) 14)

Alcohol
γ-Hydroxybutyrate; Prefrontal cortex; Electrophysiology; Dopamine; Sleep; Narcolepsy; Abuse (Godbout, R. (673) 157)

Acetylcholine; Muscarine; Atropine; slow EPSP; Electrophysiology; Intracellular recording; Eserine (Madamba, S.G. (685) 21)

Purkinje cell; Microiontophoresis; γ-Aminobutyric acid (GABA); Ro15-4513; Imidazobenzodiazepine (Lee, R.-S. (687) 1)

Purkinje cell; Microiontophoresis; γ-Aminobutyric acid; Norepinephrine; Potentiation; Modulation (Lee, R.-S. (687) 12)

Body temperature; LTP; Memory; θ-Pattern (Givens, B. (688) 27)

Purkinje neuron; Cerebellum; Ethanol; ACPD; Quisqualate; Glutamate; Culture (Netzeband, J.G. (688) 105)

Alcohol drinking
Serotonin; Norepinephrine; Dopamine; Monoamine metabolite; 5,7-Dihydroxytryptamine; Ethanol; Brain region; Dorsal raphe nucleus; Median raphe nucleus; Sprague–Dawley rat (Adell, A. (693) 70)

Alcohol, ethyl
Alcoholism; Excitatory amino acid receptor; Receptor, glutamate; Receptor, AMPA; Receptor, kainate; Schizophrenia; Human postmortem tissue; NCAM; Tau; Western blotting; Immunoreactivity (Breese, C.R. (674) 82)

Alcoholism
Alcohol, ethyl; Excitatory amino acid receptor; Receptor, glutamate; Receptor, AMPA; Receptor, kainate; Schizophrenia; Human postmortem tissue; NCAM; Tau; Western blotting; Immunoreactivity (Breese, C.R. (674) 82)

Alcohol preference
Calcitonin gene-related peptide; CGRP Receptor; Central amygdaloid nucleus; Nucleus accumbens (Hwang, B.H. (690) 249)

Alcohol withdrawal
N-Methyl-D-aspartate; Ethanol; Rat hippocampus; Excitotoxicity (Davidson, M. (674) 91)

Alertness
Melatonin; Temperature; Performance; Sleep; Circadian rhythm; Phase-shifting (Deacon, S. (688) 77)

AlF complex
Muscarinic receptor; Cation channel; Phosphorylation; Dephosphorylation; Deactivation; G protein; Chromaffin cell (Inoue, M. (687) 199)

Alfentanil
Muscle rigidity; Dexmedetomidine; Methylnaloxonium; Ketanserin; α Adrenergic receptor; Electromyography; ST91 (Weinger, M.B. (669) 10)

Allodynia
Excitatory amino acid; Nociception; Hyperalgesia; Spinal cord; Chronic pain; Neural graft; Chromaffin cell (Siegan, J.B. (680) 88)

Allograft
Brain tissue transplantation; Dopamine neuron; Rejection; Active immunization; Adoptive immunization (Shinoda, M. (680) 180)

Allopregnan
Adenosine; γ-Aminobutyric acid; Neurosteroid; Alphaxalone; Purine; Hippocampus (Akhondzadeh, S. (677) 311)

Alphaxalone
Adenosine; γ-Aminobutyric acid; Neurosteroid; Allopregnan; Purine; Hippocampus (Akhondzadeh, S. (677) 311)

Alternative specificity
Frog; Nerve transplantation; Aberrant synapse; Cross-modality rewiring; Neural plasticity (Scalia, F. (685) 187)

Alternative splicing
Amyloid precursor protein; P19; Embryonal carcinoma; Differentiation; ASF/SF2; U2AF (Tsukahara, T. (679) 178)

Aluminum
Neurodegeneration; Tau; Rabbit (Savory, J. (669) 325)

Alz-50
Alzheimer; Hypothalamus; Nucleus tuberalis; Golgi apparatus; Lipofuscin (Salehi, A. (678) 29)

Alz 50 antibody
Paired helical filament; Tau protein; Tau synthetic peptide; ELISA (Ksiezak-Reding, H. (697) 63)

Alzheimer
Hypothalamus; Nucleus tuberalis; Alz-50; Golgi apparatus; Lipofuscin (Salehi, A. (678) 29)

Alzheimer's disease
Phospholipase C-δ, Tau; Basic fibroblast growth factor; Electron microscopy; Solubilization (Shimohama, S. (669) 217)

Septum; Diagonal band of Broca; Basal forebrain; Monoamine; Electron microscopy; Learning and memory (Milner, T.A. (670) 121)

Amyloid precursor protein; β-Amyloid proteins (β/A4); β/A4 bearing carboxy-terminal peptide; Senile plaque; Neurofibrillary tangle; Electron microscopy; Al^{3+} (Chong, Y.-H. (670) 137)

β-Amyloid; Calcium binding protein; Calretinin; Neurotoxicity; Neuroprotection (Pike, C.J. (671) 293)

Cell line; T antigen; Septum; Mouse trisomy 16; Down syndrome; Nerve growth factor (Kim, J.-H. (671) 299)

Brain energy metabolism; Streptozotocin; Acetyl-L-carnitine; Spatial learning; Choline acetyltransferase; Animal model; Neurodegeneration (Prickaerts, J. (674) 142)

Apolipoprotein E; Apolipoprotein J; Global cerebral ischemia; Cardiac arrest; Rat (Kida, E. (674) 341)

Freeze-dried vertically Pt-C replicated PHF; Organization of tau subunits in PHF; PHF isolated from neurofibrillary tangles; Neurofibrillary pathology (Ruben, G.C. (675) 1)

C1 inhibitor; Dystrophic neurite; Suicide reaction (Walker, D.G. (675) 75)

D-Aspartate; PHF-tau; Normal tau (Kenessey, A. (675) 183)

Amylin; β2-Microglobulin; Calcium; Fura-2; Hippocampus; Prion protein; 2,7-Dichlorofluorescin; Vitamin E (Mattson, M.P. (676) 219)

β-Amyloid precursor protein; Immunocytochemistry; Neurodegeneration; Thiamine deficiency; Wernicke–Korsakoff syndrome (Calingasan, N.Y. (677) 50)

AMPA receptor; GluR1; GluR2/3 (Yasuda, R.P. (678) 161)

Amyloid β protein; Diffuse plaque; Amyloid angiopathy; Cerebellum; Enzyme-linked immunosorbent assay; Immunocytochemistry (Tamaoka, A. (679) 151)

Amyloid precursor protein; Matrix protein; Signal transduction; PC-12 cell; Olfactory neuroblast; NGF (Luo, Y.Q. (681) 65)

Inositol(1,4,5)P_3; Inositol(1,3,4,5)P_4; Calcium; Receptor; Phosphatidylinositol hydrolysis; Signal transduction (Garlind, A. (681) 160)

Hippocampal neuron; Leak membrane conductance; Amyloid β peptide; β-sheet structure; Aging; Whole-cell voltage-clamp; Circular dichroism spectroscopy (Li, W.Y. (682) 207)

Glucose; Scopolamine; Cholinergic septo-hippocampal system; High-affinity choline uptake; Memory (Micheau, J. (685) 99)

Apolipoprotein E; Apolipoprotein J; Down's syndrome; β-Amyloid; Fibrillogenesis; Immunocytochemistry; Immunoelectron microscopy (Kida, E. (685) 211)

β-Amyloid; Neurotoxicity; *N*-Methyl-D-aspartic acid; Nitric oxide; Calcium (Le, W.-D. (686) 49)

Muscarinic receptor; m2 subtype; Radioligand; Brain imaging (Gitler, M.S. (687) 71)

Sodium butyrate; Neurotoxicity; Tau phosphorylation (Nuydens, R. (688) 86)

Growth inhibitory factor; Stab wound; Gliosis; Reactive astrocyte; Western blot; Northern blot (Hozumi, I. (688) 143)

Calcium; Colchicine; Excitototoxicity; Fura-2; Glutamate; Microtubule; Taxol (Furukawa, K. (689) 141)

Substantia innominata; Basalis nucleus of Meynert; Zona incerta; Cerebral blood flow; Autoradiography; Electrical stimulation (Vaucher, E. (691) 57)

γ-Aminobutyric acid; Calretinin; Interneuron; Double bouquet cell; Temporal cortex; Calcium-binding protein (Fonseca, M. (691) 83)

β-Amyloid; Neurotoxicity; Glutamate; Excitotoxicity; Neurons; Astrocyte; Hippocampal cell culture; Cortical cell culture (Gray, C.W. (691) 169)

Conditioned taste aversion; Chronic i.c.v. drug administration; Choline acetyltransferase; Nerve growth factor; Rat; Memory; Conditioning (Lipinski, W.J. (692) 143)

Microglia; Nitric oxide; β-Amyloid; IFN-γ (Goodwin, J.L. (692) 207)

Intranasal; Olfactory bulb; Protein transport; Drug delivery (Thorne, R.G. (692) 278)

Excitotoxin; *N*-Methyl aspartic acid; Calcification; Basal forebrain; Cholinergic; Down's syndrome (Stewart, G.R. (695) 81)

Bcl-2; Oncogene; Human brain; Apoptosis; Immunohistochemistry; Neurofibrillary tangle; PHF-1; AT8; Cell death (Satou, T. (697) 35)

β-Amyloid; Glycosaminoglycan; Heparan sulfate; Chondroitin sulfate; Neurotoxicity; Neurodegeneration; Plaque (Woods, A.G. (697) 53)

Brain; Membrane; Lipid; Ethanolamine plasmalogen (Ginsberg, L. (698) 223)

Acid phosphatase; Low molecular weight; Antibody; Protein level; Activity (Shimohama, S. (699) 125)

Amyloid β protein; Amyloid precursor protein; Chloroquine myopathy; Rimmed vacuole (Tsuzuki, K. (699) 260)

192-Saporin; Immunotoxin; Cholinergic basal forebrain; Spatial memory; Animal model (Walsh, T.J. (702) 233)

Amyloid β-protein; Diffuse plaque; Cerebrovascular amyloid; Immunocytochemistry (Iizuka, T. (702) 275)

Aβ; Amyloid; Synthetic peptide; Antibody; Conformation (Kametani, F. (703) 237)

Basement membrane; Blood–brain barrier; Cerebral microvessel; Collagen IV; Hydroxyproline (Kalaria, R.N. (705) 349)

Amacrine cell
Retinal ganglion cell; Müller cell; Blood vessel; Nitric oxide synthase (Huxlin, K.R. (692) 195)

Ambiguus neuron
Guinea pig; Rectification; Afterhyperpolarization; Ca^{2+}-mediated K^+ current; Ih; Norepinephrine; Signal-to-noise ratio (Nishimura, Y. (702) 213)

Amineptine
Ascorbic acid; Typical/atypical antipsychotics; Behavior; Mouse (De Angelis, L. (670) 303)

Amino acid
Lateral cervical nucleus; Ventral posterolateral nucleus; Synaptic vesicle; Immunogold; Somatosensory (Kechagias, S. (675) 316)

Glutathione; Aging; Brain area; Liver; Malnutrition (Benuck, M. (678) 259)

Cerebrospinal fluid; Plasma; Ventromedial nucleus of the hypothalamus; Single unit activity; Brain slice (Nishimura, F. (691) 217)

Excitotoxicity; *N*-Methyl-D-aspartate; Neurodegeneration; Arcuate nucleus; Neuronal culture; Microdialysis (Puka-Sundvall, M. (705) 65)

Amino acid deficient diet
Lateral hypothalamus; Lysine; Inhibin; Activin; Follistatin; Operant behavior (Hawkins, R.L. (704) 1)

Amino acids
Glutamate; Baroreceptor reflex; Nucleus tractus solitarii; Denervation; Nodose ganglion; Blood pressure (Colombari, E. (677) 110)

4-Aminobenzovesamicol
Acetylcholine release; Vesamicol; (*trans*)-Cyclohexovesamicol; Synaptic vesicle; Vesicular transport (Leão, R.M. (703) 86)

γ-Aminobutyric acid
Amygdala; Retrieval; Lateralization; Inhibitory avoidance; Learning; Memory (Coleman-Mesches, K. (676) 183)

Microdialysis; Substantia nigra; Electrical stimulation; Internal capsule (Biggs, C.S. (684) 172)

Microdialysis; Anti-epileptic drug; Valproic acid; γ-Vinyl-GABA; Vigabatrin (Sayin, U. (669) 67)

Freezing technique; Culture; Neuron-specific enolase; Thienyl-phencyclidine; Computer microscope; Principal component analysis (Petite, D. (669) 263)

Glutamate; Tetrodotoxin; Excitotoxicity; Synaptic transmission; *N*-Methyl-D-aspartate (Yoon, K.-W. (669) 320)

Ion channel; Osmotic effect; Glutamate; Whole-cell patch-clamp; Dissociated neuron; Cell volume (Vreugdenhil, M. (670) 89)

Phencyclidine; MK-801; *N*-Methyl-D-aspartate; Striatum; Microdialysis (Hondo, H. (671) 54)

Amphetamine; Cocaine; Dopamine; Glutamate; Stereotypy; Striatum; Mouse (Karler, R. (671) 100)

Neuromodulation; Somatosensory cortex; Intracellular; Norepinephrine (Sessler, F.M. (675) 171)

$GABA_A$; NPY; Circadian rhythm (Huhman, K.L. (675) 333)

L-Glutamate; Spinal cord; Retrograde tracing; Immunogold reaction; Spinomedullary neuron (Maxwell, D.J. (676) 103)

Convulsion; Hyperbaric oxygen; Excitatory amino acid; Ammonia; Brain; Mouse (Mialon, P. (676) 352)

Sensitization; Homogenate receptor binding; Neurotoxicity; Dopamine (Lipton, J.W. (676) 378)

Serotonin; Glutamic acid decarboxylase; Nucleus raphe magnus; Dorsal raphe nucleus; Colocalization; Immunohistochemistry (Stamp, J.A. (677) 39)

Nucleus magnocellularis; Nucleus laminaris; Medial vestibular nucleus; Inhibition; Brain slice; Receptor (Hyson, R.L. (677) 117)

Adenosine; Neurosteroid; Alphaxalone; Allopregnan; Purine; Hippocampus (Akhondzadeh, S. (677) 311)

Baclofen; Hippocampus; Memory; CGP-35348; D-APV; Plasticity; *N*-Methyl-D-amphetamine (Brucato, F.H. (677) 326)

Retina; Müller cell; Ischaemia; Immunocytochemistry (Barnett, N.L. (677) 337)

Picrotoxin; Convulsion; 2,3-Butanedione monoxime; Anticonvulsant; Whole cell current in response to GABA; 2,3-Butanedione (Brightman, T. (678) 110)

Receptor; Spinal cord; Chronic inflammation; Neurectomy; Pain; Complete Freund's adjuvant (CFA); Plasticity (Castro-Lopes, J.M. (679) 289)

Hamster; Hippocampus; Inferior colliculus; Prion; Scrapie; Immunohistochemistry (Lu, P. (681) 235)

Cocaine; Cocaine self-administration; Neurotransmitter turnover rate; Dopamine; Noradrenaline; Serotonin; Glutamate; Aspartate (Dworkin, S.I. (682) 116)

Excitotoxicity; Glutamate; Neurotoxicity; Malonate; Microdialysis (Messam, C.A. (684) 221)

Purkinje cell; Microiontophoresis; Norepinephrine; Alcohol; Potentiation; Modulation (Lee, R.-S. (687) 12)

Development; Cocaine; Cortex; Limbic; Anterior cingulate (Wang, X.-H. (689) 32)

Somatostatin; Visual deprivation; Visual cortex; Intracortical inhibition (Benevento, L.A. (689) 172)

Radioimmunoassay; PAG; Bicuculline; Nociception; Opioid peptide (Williams, F.G. (690) 207)

Neurotensin; Striatum; Nucleus accumbens; Hybridization, in situ; Basal ganglia; Antipsychotic (Decker, K.P. (691) 9)

Calretinin; Interneuron; Double bouquet cell; Temporal cortex; Calcium-binding protein; Alzheimer's disease (Fonseca, M. (691) 83)

Seizure; Brain slice; Nipecotic acid; Epilepsy; Anticonvulsant (Honmou, O. (692) 273)

Bicuculline; Ethyl-β-Carboline-3-Carboxylate; L-Glutamate; Muscimol; Picrotoxin; Tyrosine hydroxlase and phenethyl-*N*-methyl transferase immunoreactive cell; Vasodepressor neuron (Gatti, P.J. (693) 80)

Hypothalamus; Brain slice; Circadian rhythm (Gannon, R.L. (694) 264)

Benzodiazepine; Harmaline; Clonazepam; Picrotoxin; Hippocampus (Weiss, M. (695) 105)

Extra-genomic; Steroid hormone; Membrane; Hippocampus; Perforant pathway; Progesterone (Frye, C.A. (696) 113)

Glycine; Sympathetic activity; Sympathetic rhythm (Clement, M.E. (696) 258)

Conditioned emotional response; Microdialysis; Glutamate; Nucleus accumbens (Saulskaya, N. (698) 114)

Cortex; Dendritic spine; Nitric oxide; Non-pyramidal cell (Gabbott, P.L.A. (698) 253)

Amygdala; *Macaca mulatta*; *Wisteria floribunda* agglutinin; Extracellular matrix; Calcium-binding protein; Double labelling (Härtig, W. (698) 265)

N-Methyl-D-aspartate; Glutamate; Cerebral cortex; Development; Rat; Evoked potential; Voltage clamp (Metherate, R. (699) 221)

Rat; Spinal cord stimulation; Periaqueductal gray matter; Microdialysis; 5-Hydroxytryptamine; Glutamate; Substance P (Stiller, C.-O. (699) 231)

Suprachiasmatic nucleus; Intergeniculate leaflet; Subparaventricular zone; Paraventricular hypothalamic nucleus; Paraventricular thalamic nucleus; Retrochiasmatic area; Benzodiazepine receptor (Gao, B. (700) 142)

Bicuculline methiodide; Extracellular field potential; Magnesium; Potassium; Seizure (Watson, P.L. (700) 227)

Valproic acid; Epilepsy; Anticonvulsant action; Chloral hydrate; Ketamine; Fentanyl; Opioid (Löscher, W. (702) 133)

Nucleus of the solitary tract; Brain slice; Patch clamp; Taste; Synaptic potential; Glutamate; Neuron reconstruction (Wang, L. (702) 188)

Vestibular stimulation; Neuronal activity; Cerebellum; Morphometry; Cerebellectomy; Ataxia; Compensation (Grüsser-Cornehls, U. (703) 51)

Glycine; Hippocampus; Post-natal; Tissue-culture; Whole-cell current; Single-channel current (Fatima-Shad, K. (704) 246)

Subfornical organ; $GABA_A$ receptor; $GABA_B$ receptor; Muscimol; Bicuculline; Baclofen (Inenaga, K. (705) 85)

γ-Aminobutyric acid receptor
Nucleus basalis; Glutamate receptor subtype; *N*-Methyl-D-aspartate receptor; AMPA receptor; Kainate receptor; Autoradiography; Benzodiazepine receptor; Image analysis (Roßner, S. (696) 165)

γ-Aminobutyric acid (GABA)
Purkinje cell; Microiontophoresis; Alcohol; Ro15-4513; Imidazobenzodiazepine (Lee, R.-S. (687) 1)

γ-Aminobutyric acid release
Thiopental; Halothane; Isoflurane; Synaptosome; Depolarization; Calcium channel (Lecharny, J.-B. (670) 308)

(1*S*,3*R*)-1,3-Aminocyclopentane-3-dicarboxylic acid
Metabotropic glutamate receptor; *N*-Methyl-D-aspartate; LTP; Hippocampus; CA1–CA3; Synaptic transmission (Collins, D.R. (684) 165)

***trans*-1-Amino-cyclopentyl-1,3-dicarboxylate**
Hippocampus; Long-term potentiation; Metabotropic glutamate receptor; (*RS*)-α-Methyl-4-carboxyphenylglycine; Molecular switch (Thomas, M.J. (695) 45)

Aminoglycoside
Hair cell; Endocytosis; Immuno-gold; Cationic ferritin; Toxicity; Chicken (Hashino, E. (704) 135)

(±)-2-Amino-3-hydroxy-5-methyl-4-isoxazoleacetic acid
Heat shock protein; mRNA; Hybridization, in situ; Immunohistochemistry; MK-801 (Planas, A.M. (700) 289)

α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid
Human neocortical slice; Excitatory amino acid; *N*-Methyl-D-aspartate; Extracellular calcium concentration; Cortical field potential (Lücke, A. (671) 222)

α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionate antagonist
Ischemia; Cardiac arrest; Neuroprotection; Thalamic reticular nucleus (Ross, D.T. (683) 117)

α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid
Medulla; Cat; Lateral tegmental field; Sympathoinhibition; Kynurenic acid; Baroreflex (Dempesy, C.W. (704) 141)

α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid
Hypothalamic paraventricular nucleus; Ventrolateral medulla; Tyrosine hydroxylase; Rat; Dual immunocytochemistry; Retrograde tracing (Larsen, P.J. (705) 209)

Aminopeptidase
Excitatory amino acid; Aging; β-Amyloid peptide; Neuropeptide (Iribar, C. (687) 211)

L-2-Amino-4-phosphonobutyric acid
Metabotropic glutamate receptor; APB; ON bipolar cell; Electroretinogram; Whole cell recording (Thoreson, W.B. (676) 93)

Aminophylline
Naloxone; 5′-*N*-Ethylcarboxamidoadenosine; Morphine; Serotonin; Norepinephrine; Antinociception; Tail-flick; Analgesia (Yang, S.-w. (673) 170)

bis-(3-Aminopropyl)nonanediamine
N-Methyl-D-aspartate receptor complex; Polyamine recognition domain; Agonist–antagonist; Multiplicity (Yoneda, Y. (679) 15)

4-Aminopyridine
Metabotropic glutamate receptor; MCPG; Epilepsy; Amygdala; Ictal; Interictal; mGluR (Arvanov, V.L. (669) 140)

Striatal synaptosome; Dopamine release; $[Ca^{2+}]_i$; KCl depolarization; Ca^{2+} channel (Carvalho, C.M. (669) 234)

Spinal cord injury; Spinal cord compression; Dorsal column; Potassium channel (Fehlings, M.G. (677) 291)

Hippocampus; Slice culture; Zinc; $GABA_A$ depolarizing potential; $GABA_A$ hyperpolarizing potential; Epileptiform activity (Ricciardi, T.N. (680) 80)

Release of radiolabelled neurotransmitters; Ca^{2+}; Brain region; Synaptosome; Slice (Versteeg, D.H.G. (686) 233)

Coeliac-superior mesenteric ganglia; Whole-cell patch-clamp; Perforated patch; M-Current; A-Current; Ca^{2+}-activated K^+ current; Delayed rectifier K^+ current; Tetraethylammonium; Muscarinic agonist (Carrier, G.O. (701) 1)

21-Aminosteroid
2-Methylaminochroman; Cyanide; Iron toxicity; Primary neuronal culture; Dizocilpine; Neuroprotection (Müller, U. (678) 265)

Amitriptyline
Histamine; H_3 receptor; Stress; Cortex (Ghi, P. (690) 104)

Ammonia
Convulsion; Hyperbaric oxygen; Excitatory amino acid; γ-Aminobutyric acid; Brain; Mouse (Mialon, P. (676) 352)

Hepatic encephalopathy; Thioacetamide; Peripheral benzodiazepine receptor; Pregnenolone; Neurosteroid (Itzhak, Y. (705) 345)

Ammonium acetate
CGS 8216; Somatostatin receptor; Frontoparietal cortex; Hippocampus; Rat (Boyano-Adánez, M.C. (688) 1)

Ammon's horn
Excitatory amino acid; Glutamate receptor; Immunohistochemistry; Dentate gyrus (Blümcke, I. (682) 239)

Amnesia
σ_1 Receptor; Hippocampus; Acetylcholine; SKF-10,047 (*N*-allylnormetazocine); Haloperidol; Stereoselectivity; Rat (Matsuno, K. (690) 200)

AMPA
Hippocampal formation; Nucleus accumbens; Caudate–putamen; $GABA_A$; $GABA_B$ (Finch, D.M. (670) 233)

Glutamate; Kainate; Cell culture; Excitotoxicity; Spinal cord; Neurotoxicity; Ca^{2+}; Calcium (Yin, H.-z. (689) 265)

Neurosteroid; Long-term potentiation; Ethanol; Dehydroepiandrosterone sulfate; *N*-Methyl-D-amphetamine; $GABA_A$ (Randall, R.D. (701) 238)

Acromelic acid; Kainic acid; Excitatory amino acid; Glutamate receptor; Neurotoxicity; Spastic paraplegia; Spinal cord (Kwak, S. (702) 61)

AMPA antagonist
Cardiac arrest; Ischemia; Cerebellar degeneration; Neuroprotection (Brasko, J. (699) 133)

AMPA / kainate receptor
Association neocortex; Glutamate receptor; Human brain; Pyramidal neuron (Vickers, J.C. (671) 175)

κ-Opioid receptor; Dynorphin; Rat spinal dorsal horn neuron; Whole-cell voltage-clamp (Kolaj, M. (671) 227)

GYKI-52466; CNQX; Micturition; Pontine micturition center (Matsumoto, G. (693) 246)

AMPA receptor
Immunocytochemistry; Ultrastructure; Confocal microscopy; Vestibular system; Rat; Guinea pig (Demêmes, D. (671) 83)

Alzheimer's disease; GluR1; GluR2/3 (Yasuda, R.P. (678) 161)

Adrenal steroid; Corticosterone; Type I; Type II receptors; Stress; Dynorphin mRNA; *N*-Methyl-D-aspartate receptor; Dentate gyrus; Mossy fiber; Stratum lucidum (Watanabe, Y. (680) 217)

Heat shock; Phencyclidine; DNQX; Excitotoxicity; Cortex; Ketamine; Rat (Sharp, J.W. (687) 114)

Nucleus basalis; Glutamate receptor subtype; *N*-Methyl-D-aspartate receptor; Kainate receptor; Autoradiography; γ-Aminobutyric acid receptor; Benzodiazepine receptor; Image analysis (Roßner, S. (696) 165)

N-Methyl-D-aspartate receptor; Spinal cord; Nociception; Central hypersensitivity; Rat (Chapman, V. (703) 45)

Amperometry, in vivo
Dopamine-release; Cadmium; Striatum; *N*-Methyl-D-aspartate; Kainate; Superfusion, in vivo; Rat (Olivier, V. (695) 1)

Amphetamine
Mu-opioid; Kappa-opioid; Delta-opioid; DAMGO; U-50,488H; DPDPE; VTA; Mesoaccumbens dopaminergic system; Feeding; Drinking; Hyperdipsia; Gnawing; Activity; VTA (Badiani, A. (670) 264)

Cocaine; Dopamine; Glutamate; γ-Aminobutyric acid; Stereotypy; Striatum; Mouse (Karler, R. (671) 100)

Behavioral sensitization; Dopamine receptor; Serotonin receptor; Quantitative autoradiography (Bonhomme, N. (675) 215)

c-*fos*; Nucleus accumbens; MK-801; NBQX (Dalia, A. (694) 299)

Sexual behavior; Prefrontal cortex; Caffeine; Dopamine; Noradrenaline (Ågmo, A. (696) 187)

(±)-1-(2,5-Dimethoxy-4-iodophenyl)-aminopropane; 5-HT_2 receptor; Apomorphine; Dopamine; D_2 autoreceptor; Microdialysis; Rat (Ichikawa, J. (698) 204)

***d*-Amphetamine**
Dopamine; 6-Hydroxydopamine; Locomotor activity; Microdialysis; Neostriatum; Schizophrenia; Stress (King, D. (685) 117)

Amphetamine-induced sensitization
Mesolimbic dopamine system; Dopamine receptor; Prenatal stress; Glucocorticoids (Henry, C. (685) 179)

Amphibian
Neuropeptide; Hypophysiotropic hormone; Brain; Reproduction; Immunohistochemistry (Collin, F. (703) 111)

Amygdala
Metabotropic glutamate receptor; MCPG; Epilepsy; 4-Aminopyridine; Ictal; Interictal; mGluR (Arvanov, V.L. (669) 140)

Lateralization; Lidocaine; Inhibitory avoidance; Learning; Memory; Retrieval (Coleman-Mesches, K. (670) 75)

Kindling; Spontaneous seizure; Epilepsy; Perforant path; Dentate gyrus (Milgram, N.W. (670) 112)

Epileptogenesis; Immunohistochemistry; Kindling; Rat (Ebert, U. (671) 338)

Kindling; Epilepsy; Piriform cortex; Perirhinal cortex; Guinea-pig; Reserpine; Picrotoxin (Teskey, G.C. (672) 137)

Anxiety; Brain mince; Corticotropin-releasing factor; Development; Maternal stress; Prenatal stress (Cratty, M.S. (675) 297)

γ-Aminobutyric acid; Retrieval; Lateralization; Inhibitory avoidance; Learning; Memory (Coleman-Mesches, K. (676) 183)

Basolateral complex; Escape training; Inhibitory avoidance; Learning; Memory; Retention (Parent, M.B. (676) 235)

Fos immunoreactivity; Ethanol; Hypothalamus; Edinger–Westphal nucleus; Parabrachial nucleus; Dehydration; Vasopressin (Chang, S.L. (679) 89)

Medial geniculate; Conditioning; Habituation; Extinction; Heart rate; Rabbit (McEchron, M.D. (682) 157)

Serotonin; Stressor; Microdialysis; Striatum; Hippocampus; Cortex; Septum (Kirby, L.G. (682) 189)

Protein kinase C; Phorbol ester binding; Inhibitory avoidance; Hippocampus; Autoradiography (Bernabeu, R. (685) 163)

Periaqueductal gray; Fear; Anxiety; Analgesia; Enkephalin (Da Costa Gomez, T.M. (689) 21)

Hippocampal granule cell; Kindling; Sprague-Dawley rat; Wistar rat; Colchicine (Tsunoda, K. (691) 18)

Accumbens; Cocaine; Dopamine D1; Reinforcement; SCH 23390; Self-administration; Striatum (Caine, S.B. (692) 47)

Epilepsy; Seizure threshold; Rat; Iron; Hemoglobin (Löscher, W. (697) 197)

Macaca mulatta; *Wisteria floribunda* agglutinin; Extracellular matrix; Calcium-binding protein; γ-Aminobutyric acid; Double labelling (Härtig, W. (698) 265)

Reticular formation; Fear; Cyclic AMP; Startle (De Lima, T.C.M. (700) 59)

α-1 Adrenergic receptor; Antidepressant drug; Desipramine; Norepinephrine; REM sleep (Ross, R.J. (701) 129)

Liposome; Phenytoin; Dibutyryl-cAMP; Status epilepticus; Horseradish peroxidase; Blood-brain barrier (Mori, N. (703) 184)

Amygdala, Hippocampus
Protein kinase C; Kindling; Epilepsy; Neuronal plasticity (Akiyama, K. (679) 212)

Amygdala kindling
Anteromedial cortex lesion; Somatosensory asymmetry; Recovery of function; Kindled seizure stage; Neurological model (Hernandez, T.D. (673) 208)

Amygdaloid body
Kindling; Seizure; Epilepsy; Brainstem; Rat (Chiba, S. (682) 50)

Amygdalopiriform cortex
5-Hydroxytryptamine; Intracerebral microdialysis; 5-HT_{1B} receptors; Epilepsy (Kikvadze, I. (692) 111)

Amylin
Alzheimer's disease; β2-Microglobulin; Calcium; Fura-2; Hippocampus; Prion protein; 2,7-Dichlorofluorescin; Vitamin E (Mattson, M.P. (676) 219)

Amyloid
Aβ; Alzheimer's disease; Synthetic peptide; Antibody; Conformation (Kametani, F. (703) 237)

β-Amyloid
Alzheimer's disease; Calcium binding protein; Calretinin; Neurotoxicity; Neuroprotection (Pike, C.J. (671) 293)

Membrane fluidity; Calcium signalling; Neurotoxicity (Müller, W.E. (674) 133)

Smooth muscle cell; β-Protein; β-Amyloid precursor protein; Tissue culture (Frackowiak, J. (676) 225)

Behavior; Conditional discrimination; Memory (Cleary, J. (682) 69)

Apolipoprotein E; Apolipoprotein J; Alzheimer's disease; Down's syndrome; Fibrillogenesis; Immunocytochemistry; Immunoelectron microscopy (Kida, E. (685) 211)

Alzheimer's disease; Neurotoxicity; D/L-Methyl-D-aspartic acid; Nitric oxide; Calcium (Le, W.-D. (686) 49)

Neurotoxicity; Glutamate; Excitotoxicity; Neurons; Astrocyte; Hippocampal cell culture; Cortical cell culture; Alzheimer's disease (Gray, C.W. (691) 169)

Alzheimer's disease; Microglia; Nitric oxide; IFN-γ (Goodwin, J.L. (692) 207)

Alzheimer's disease; Glycosaminoglycan; Heparan sulfate; Chondroitin sulfate; Neurotoxicity; Neurodegeneration; Plaque (Woods, A.G. (697) 53)

Calcium-binding protein; Choline acetyltransferase; Cholinotoxicity; Medial septum; Parvalbumin (Harkany, T. (698) 270)

Amyloid angiopathy
Alzheimer's disease; Amyloid β protein; Diffuse plaque; Cerebellum; Enzyme-linked immunosorbent assay; Immunocytochemistry (Tamaoka, A. (679) 151)

Amyloid β peptide
Alzheimer's disease; Hippocampal neuron; Leak membrane conductance; β-sheet structure; Aging; Whole-cell voltage-clamp; Circular dichroism spectroscopy (Li, W.Y. (682) 207)

Amyloid β protein
Alzheimer's disease; Diffuse plaque; Amyloid angiopathy; Cerebellum; Enzyme-linked immunosorbent assay; Immunocytochemistry (Tamaoka, A. (679) 151)

Axonal degeneration; Mutant mouse; Animal model; Amyloid precursor protein (Ichihara, N. (695) 173)

Alzheimer's disease; Amyloid precursor protein; Chloroquine myopathy; Rimmed vacuole (Tsuzuki, K. (699) 260)

Diffuse plaque; Alzheimer's disease; Cerebrovascular amyloid; Immunocytochemistry (Iizuka, T. (702) 275)

Amyloid deposit
Grafted human neuron (Mantione, J.R. (671) 333)

Amyloidosis
Aging; Apolipoprotein E; Neuropathology; Proteoglycans (Permanne, B. (685) 154)

β-Amyloid peptide
Aminopeptidase; Excitatory amino acid; Aging; Neuropeptide (Iribar, C. (687) 211)

β-Amyloid$_{(1-42)}$ peptide
Nucleus basalis magnocellularis; Frontal cortex; Cholinergic system; Cholinotoxicity (Harkany, T. (695) 71)

Amyloid precursor protein
Alzheimer's disease; β-Amyloid proteins (β/A4); β/A4 bearing carboxy-terminal peptide; Senile plaque; Neurofibrillary tangle; Electron microscopy; Al^{3+} (Chong, Y.-H. (670) 137)

Alternative splicing; P19; Embryonal carcinoma; Differentiation; ASF/SF2; U2AF (Tsukahara, T. (679) 178)

Matrix protein; Signal transduction; PC-12 cell; Olfactory neuroblast; Alzheimer's disease; NGF (Luo, Y.Q. (681) 65)

Amyloid β-protein; Axonal degeneration; Mutant mouse; Animal model (Ichihara, N. (695) 173)

Alzheimer's disease; Amyloid β protein; Chloroquine myopathy; Rimmed vacuole (Tsuzuki, K. (699) 260)

β-Amyloid precursor protein
Smooth muscle cell; β-Protein; β-Amyloid; Tissue culture (Frackowiak, J. (676) 225)

Alzheimer's disease; Immunocytochemistry; Neurodegeneration; Thiamine deficiency; Wernicke–Korsakoff syndrome (Calingasan, N.Y. (677) 50)

β-Amyloid protein
S100β protein; Transgenic mouse (Yao, J. (702) 32)

Amyloid protein precursor
Transient global ischemia; Gerbil; Axonal transport; Immunoelectron microscopy; Multivesicular body (Tomimoto, H. (672) 187)

β-Amyloid proteins (β/A4)
Alzheimer's disease; Amyloid precursor protein; β/A4 bearing carboxy-terminal peptide; Senile plaque; Neurofibrillary tangle; Electron microscopy; Al^{3+} (Chong, Y.-H. (670) 137)

Amyotrophic lateral sclerosis
Retrograde axonal transport; Albumin; Transferrin; Transferrin receptor; Lysosome; Motor neuron; Ultrastructure; Toxic metal; Rat (Moos, T. (672) 14)

Motor neurone disease; Spinal cord; Glutamate receptor; NMDA receptor; NR1 mRNA; c-*jun*; Glycine transporter (Virgo, L. (676) 196)

Anabolic steroid
Methandrostenolone; Morris water maze; Hippocampus; Corticosterone; Testosterone; Memory (Clark, A.S. (679) 64)

Pregnenolone sulfate; Ethylestrenol; Passive avoidance response; Memory (Isaacson, R.L. (689) 79)

Analgesia
κ-Opioid receptor; U-69,593; Ca^{2+}-channel; Dihydropyridine (Barro, M. (672) 148)

Naloxone; Aminophylline; 5′-*N*-Ethylcarboxamidoadenosine; Morphine; Serotonin; Norepinephrine; Antinociception; Tail-flick (Yang, S.-w. (673) 170)

Protein kinase C gamma; Tolerance; Morphine; Immunocytochemistry; Spinal cord (Mao, J. (677) 257)

Epibatidine; Nicotinic acetylcholine receptor; Bay K 8644; Calcium channel (Bannon, A.W. (678) 244)

Pelvic nerve; Electrical stimulation; Aδ fiber; C-fiber (Cueva-Rolón, R. (679) 267)

Cannabinoid; Opioid; Tetrahydrocannabinol; Withdrawal; Perinatal; Behavior (Vela, G. (680) 142)

Tolerance, opioid; Nociception; Inflammation, chronic; Stress-induced analgesia; Tail-flick latency; Complete Freund's adjuvant; Pain, chronic (Gutstein, H.B. (680) 173)

Brain stimulation reward; Self-stimulation; Aversion; Ventral tegmental area; Nucleus reticularis gigantocellularis (Anderson, R. (688) 15)

Periaqueductal gray; Amygdala; Fear; Anxiety; Enkephalin (Da Costa Gomez, T.M. (689) 21)

β-Endorphin; Met-enkephalin; Cerebrospinal fluid; Arcuate nucleus; High performance liquid chromatography; Periaqueductal gray; Opioid (Bach, F.W. (690) 167)

Morphine; Microdialysis; Spinal cord; Dorsal raphe; Hypothalamus; Serotonin (Matos, F.F. (693) 187)

Dynorphin; β-Endorphin; Endorphins; Enkephalin; Morphine; Naloxone; Opiate (Mansour, A. (700) 89)

Interleukin-1β; Preoptic area; Ventromedial hypothalamus; Hyperalgesia; Diagonal band of Broca; Prostaglandin; α-Melanocyte stimulating hormone; Pain (Oka, T. (700) 271)

Opioid; Pain; Visceral nociception (Traub, R.J. (701) 175)

β-Endorphin; Cerebrospinal fluid; Chromatography, high performance liquid; Pain; Spinal cord; Excitatory amino acids; Neurokinins (Bach, F.W. (701) 192)

2-Deoxy-D-[^{14}C]glucose; Pain; Rat; Glucose; Brain (Gescuk, B.D. (701) 279)

Analgesia (non-opioid)
Glibenclamide; Antinociception; Analgesia (opioid); Potassium channel; Mouse (Raffa, R.B. (677) 277)

Analgesia (opioid)
Glibenclamide; Antinociception; Analgesia (non-opioid); Potassium channel; Mouse (Raffa, R.B. (677) 277)

Anandamide
Tolerance; Δ^9-THC; Cannabinoid; Cannabinoid receptor; G_i protein; G_s protein (Fride, E. (697) 83)

Anandamide (arachidonylethanolamide)
Δ^9-Tetrahydrocannabinol; Cannabinoid receptor; Dopamine; Nigrostriatal dopaminergic neuron; Motor activity; Stereotypic behavior (Romero, J. (694) 223)

Anatomy
FGF-2; FGFR1; Rat brain; Central nervous system; Immunohistochemistry; Hybridization, in situ (Gonzalez, A.M. (701) 201)

Androgen
Castration; CA1; Hippocampus; MK801; *N*-Methyl-D-aspartate; Testosterone; Autoradiography (Kus, L. (683) 270)

Monodelphis; Immunohistochemistry; Gonadectomy; Steroid receptor (Iqbal, J. (703) 1)

Androgen receptor
Hippocampus; Aging; Glucocorticoid receptor; Thyroid hormone receptor; Estrogen receptor; Hybridization, in situ histochemistry (Tohgi, H. (700) 245)

Anesthesia
Intracerebroventricular; Mean arterial pressure; Heart rate; Pirenzepine; 4-DAMP; Methoctramine; Atropine (Ally, A. (677) 268)

Dopamine neuron; Ethanol; Withdrawal; Depolarization block (Diana, M. (682) 29)

Cerebral pO_2; EPR oximetry; Lithium phthalocyanine; Ischemia (Liu, K.J. (685) 91)

Learning; Memory; Recognition; Priming; Rat; Recognition; Consciousness; Rhinal cortex; Single unit; Visual; Hippocampal (Zhu, X.O. (689) 101)

Anesthetics: general, halothane
Spinal cord: dorsal horn (Yamamori, Y. (702) 162)

Anesthetics
Apneusis; Control of respiration; *N*-Methyl-D-aspartate receptor; Dizocilpine; Mice; Rodent (Cassus-Soulanis, S. (679) 25)

Angiogenesis
Basic fibroblast growth factor; Hippocampus; Intracerebral hemorrhage; Intracerebral mass lesion; Ischemia; Protective effect; Rat (Kawakami, N. (697) 104)

c-*fos* gene; Metallothionein promoter; Exogenous control; NRK cell; Nf-1 cell; Transplantation; Neovascularization; Gene therapy (Asakuno, K. (702) 23)

Angiotensin
Receptor; Subtype; Human; Brain; Losartan; Autoradiography (MacGregor, D.P. (675) 231)

AT_2 receptor; Autoradiography; OX-42; ED1; Immunohistochemistry; Kainic acid; Gliosis; Hippocampus (Jöhren, O. (702) 153)

(3-8)Angiotensin
C6 glioma; Brain; AngIV receptor; Renin angiotensin system (Wyse, B. (681) 41)

Angiotensin II
Losartan; Paraventricular hypothalamus; Supraoptic nucleus; Lamina terminalis; Kininase II inhibitor; Enalapril; Captopril; Bradykinin antagonist (Hoe 140) (Rowland, N.E. (669) 73)

Angiotensin II antagonist; Caudal ventrolateral medulla; Baroreflex control; Blood pressure; Renal sympathetic nerve activity (Sesoko, S. (671) 38)

AT_2 receptor; Quantitative autoradiography; CGP 42112; Medial geniculate nucleus; Inferior olive; Brain development (Heemskerk, F.M.J. (677) 29)

Autoradiography; Nucleus tractus solitarii; Spontaneously hypertensive rat; α_2-Adrenoceptor; Blood pressure; Heart rate (Fior, D.R. (679) 168)

Angiotensin IV; AT_4 receptor; Autoradiography; c-Fos expression; Hippocampus; Rat; Guinea pig (Roberts, K.A. (682) 13)

Dopamine; Rotation; Losartan; Striatum; Substantia nigra; Haloperidol (Jenkins, T.A. (691) 213)

Lateral parabrachial nucleus; Water intake; Arterial pressure; Thirst; Local anesthetic (Menani, J.V. (695) 250)

Area postrema; Circumventricular organ; Potassium channel; Sodium channel (Hay, M. (705) 199)

Angiotensin II antagonist
Angiotensin II; Caudal ventrolateral medulla; Baroreflex control; Blood pressure; Renal sympathetic nerve activity (Sesoko, S. (671) 38)

Angiotensin IV
Angiotensin II; AT_4 receptor; Autoradiography; c-Fos expression; Hippocampus; Rat; Guinea pig (Roberts, K.A. (682) 13)

Angiotensin receptor
Median eminence; Second messenger system; Quantitative autoradiography (Seltzer, A.M. (705) 24)

AngIV receptor
(3-8)Angiotensin; C6 glioma; Brain; Renin angiotensin system (Wyse, B. (681) 41)

Animal model
Senescence-accelerated mouse; Dietary oil; α-Linolenic acid; Linoleic acid; Sidman-active avoidance; Discrimination learning (Umezawa, M. (669) 225)

Brain energy metabolism; Streptozotocin; Acetyl-L-carnitine; Spatial learning; Choline acetyltransferase; Neurodegeneration; Alzheimer's disease (Prickaerts, J. (674) 142)

Goldfish, brain; Tyrosine hydroxylase; Dopaminergic; Neuron; MPTP; Parkinson's disease; Microscopy; Immunohistochemistry; Ultrastructure (Goping, G. (687) 35)

Brain; Neuron; Rhesus monkey; Stereology (Pakkenberg, H. (693) 201)

Amyloid β-protein; Axonal degeneration; Mutant mouse; Amyloid precursor protein (Ichihara, N. (695) 173)

192-Saporin; Immunotoxin; Alzheimer's disease; Cholinergic basal forebrain; Spatial memory (Walsh, T.J. (702) 233)

Social stress; Serotonin; 5-Hydroxyindoleacetic acid; Prefrontal cortex; *Macaca fascicularis* (Fontenot, M.B. (705) 105)

Anion modulation
Taste response; Salt; Glossopharyngeal nerve; Cation-induced response; Receptor for cation; Lyotropic series; Frog (Kitada, Y. (694) 253)

Anisomycin
Circadian rhythm; Suprachiasmatic nucleus; Pacemaker; Protein synthesis; Cell culture; Antisense; Vasopressin (Watanabe, K. (684) 179)

Long-term potentiation; Mouse; Dentate granule cell; Protein synthesis; Cycloheximide; Calcium buffering (Namgung, U. (689) 85)

Anisotropy
Diffusion; Jimpy; Histology; Magnetic Resonance Imaging; Myelination (Ono, J. (671) 141)

Anodal polarization
Direct current; Rat; Brain; Sensorimotor cortex; Dark neuron; ^{45}Ca autoradiography (Islam, N. (684) 206)

Anomalous rectifier
A-current; Autonomic nervous system; Brainstem slice; Central adrenergic neuron; DiI retrograde transport; Medulla oblongata; Pacemaker neurons; Persistent sodium current; Medulla oblongata; Sympathetic nervous system; Vasomotor control (Kangrga, I.M. (670) 215)

Anophthalmic mice
Suprachiasmatic nucleus; Vasoactive intestinal polypeptide (Laemle, L.K. (688) 203)

A1 noradrenergic cell group
Hypertonicity; Osmoregulation; Nucleus of the solitary tract; Ventrolateral medulla; Parabrachial nucleus; Catecholamine; Cardiovascular regulation; C1 adrenergic cell group (Hochstenbach, S.L. (674) 46)

Central nucleus of the amygdala; Limbic system; Cardiovascular regulation (Roder, S. (705) 71)

Anorexia
Tumor; Neuropeptide Y; Adenylate cyclase; Experimental cancer (Chance, W.T. (691) 180)

Brain mapping; Hypothalamus; Thalamus; Paraventricular nucleus; Microinjection; Nociception; Fever (Sellami, S. (694) 69)

Anoxia
Glucose; Lactate; Hippocampus; Hypoxia; Ion transport; Synaptic transmission; Brain slice (Roberts, Jr., E.L. (678) 83)

Cortex; Brainstem; Hypoxia; Electrophysiology; In vitro; Brain slice (O'Reilly, J.P. (683) 179)

Peripheral nerve; Myelinated axon; Ouabain; Electron probe X-ray microanalysis; Calcium; Na^+-Ca^{2+} exchanger; Na^+-K^+ ATPase (Lehning, E.J. (694) 158)

Antagonist
Phosphoinositide turnover; M_1 selective agonist; Xanomeline; Rat brain; Conformational analysis (Periyasamy, S. (693) 118)

β-Antagonist
Serotonin; Stress; Renin; Adrenalectomy; Sympathectomy (Richardson Morton, K.D. (698) 185)

Anterior cingulate
γ-Aminobutyric acid; Development; Cocaine; Cortex; Limbic (Wang, X.-H. (689) 32)

Anterior hypothalamic area
Interleukin-1β; Paraventricular nucleus; Push-pull perfusion (Phelps, C.P. (688) 193)

Anterior hypothalamus
Vasopressin; Testosterone; Hamster; Autoradiography; Medial preoptic area; Flank marking (Johnson, A.E. (674) 153)

Preoptic area; Basal forebrain; Sleep–wake regulation; Non-REM sleep; Thermosensitivity (Alam, Md.N. (696) 221)

Graded impulse; Action potential; Preoptic area; Slice preparation; Patch-clamp (Johansson, S. (700) 240)

Anterior pituitary
Corticotropin-releasing hormone; Brain cell culture; CRH receptor; Extrahypothalamic; Cyclic AMP; Modulation; Corticosterone; Protein kinase C; Dexamethasone; Vasopressin; Glucocorticoid (Kapcala, L.P. (678) 207)

Anterior pretectal nucleus
Pretectum; Diencephalon; Mesencephalon; Thalamus; Antinociception; *Phaseolus vulgaris* leucoagglutinin (Terenzi, M.G. (701) 183)

Anterograde axonal tracing
Superior colliculus; Primary motor cortex; Frontal eye field; Orofacial movement; Intracortical microstimulation; Monkey (Tokuno, H. (703) 217)

Anterograde degeneration
Prefrontal cortex; Thalamus; Horseradish peroxidase (Kuroda, M. (677) 348)

Anterograde tracer
Nucleus of the optic tract; Descending projection; Biocytin; Monkey (Kato, I. (705) 109)

Anterograde tract tracing
Medial zona incerta; Efferent; *Phaseolus vulgaris* leucoagglutinin (Wagner, C.K. (677) 229)

Anteromedial cortex lesion
Amygdala kindling; Somatosensory asymmetry; Recovery of function; Kindled seizure stage; Neurological model (Hernandez, T.D. (673) 208)

Anteroventro-medial hypothalamus
Wake–sleep cycle; Cyclic AMP; Cerebral cortex; Pineal gland; Interscapular brown adipose tissue; Low ambient temperature (Perez, E. (684) 56)

Antibiotic
Benzodiazepine receptor; Hepatic encephalopathy; *Acinetobacter*; Rat; Brain (Yurdaydin, C. (679) 42)

Antibody
Glucose transport; Brain metabolism; Local cerebral glucose utilization; Immunoautoradiography; Autoradiography; Glucose metabolism (Zeller, K. (698) 175)

Acid phosphatase; Low molecular weight; Protein level; Activity; Alzheimer's disease (Shimohama, S. (699) 125)

Aβ; Amyloid; Alzheimer's disease; Synthetic peptide; Conformation (Kametani, F. (703) 237)

Antibody microprobe
Dopamine; In vivo; Neurokinin A; Rat brain; Release; Substantia nigra (Furmidge, L.J. (679) 241)

Anticonvulsant
Picrotoxin; Convulsion; 2,3-Butanedione monoxime; γ-Aminobutyric acid; Whole cell current in response to GABA; 2,3-Butanedione (Brightman, T. (678) 110)

Seizure; Brain slice; Nipecotic acid; Epilepsy; γ-Aminobutyric acid (Honmou, O. (692) 273)

Anticonvulsant action
Valproic acid; Epilepsy; γ-Aminobutyric acid; Chloral hydrate; Ketamine; Fentanyl; Opioid (Löscher, W. (702) 133)

Anticonvulsant drug
Imipenem; DBA/2 mouse; Excitatory amino acid antagonist; Epilepsy seizure; Audiogenic seizure (De Sarro, G. (671) 131)

Antidepressant
Brain; Flavin-containing monooxygenase; Metabolism; Neuroleptic; Monooxygenase; Human brain (Bhamre, S. (672) 276)

Serotonin; 5-Hydroxytryptamine; Norepinephrine; Tianeptine (Frankfurt, M. (696) 1)

Antidepressant drug
Pain; Dorsolateral funiculus; Serotonin (Ardid, D. (695) 253)

α-1 Adrenergic receptor; Amygdala; Desipramine; Norepinephrine; REM sleep (Ross, R.J. (701) 129)

Antidromic vasodilatation
Trigeminal ganglion; Migraine; Neurogenic inflammation; Calcitonin gene-related peptide; Vasoactive intestinal peptide; Substance P (Escott, K.J. (669) 93)

Anti-epileptic drug
γ-Aminobutyric acid; Microdialysis; Valproic acid; γ-Vinyl-GABA; Vigabatrin (Sayin, U. (669) 67)

Antiestrogen
Caudate nucleus; Estrogen; Nigrostriatal; Uterus (McDermott, J.L. (698) 248)

Anti-F3 antibody
Hypothalamus; Neurohypophysis; Plasticity; Colchicine (Olive, S. (689) 271)

Antigen-presenting cell
B7-1; B7-2; Costimulatory molecule; Human astrocyte; Human microglia (Satoh, J.-i. (704) 92)

Antinociception
Naloxone; Aminophylline; 5′-*N*-Ethylcarboxamidoadenosine; Morphine; Serotonin; Norepinephrine; Tail-flick; Analgesia (Yang, S.-w. (673) 170)

Nociception; Substance P; Naloxone; Opioid; Tail-flick test; Capsaicin; Spinal cord; Primary afferent; C-fiber; CP-96,345; CP-96,344; CP-99,994 (Yashpal, K. (674) 97)

Glibenclamide; Analgesia (opioid); Analgesia (non-opioid); Potassium channel; Mouse (Raffa, R.B. (677) 277)

Baclofen; Antispasticity; Spinal rat (Bertman, L.J. (684) 8)

Antisense oligodeoxynucleotide; κ-1 Opioid; Δ^9-THC (Pugh, Jr., G. (689) 157)

RNA; Solution hybridization; Central nervous system locus; δ-Opioid receptor (Jenab, S. (691) 69)

Morphine tolerance; L-type calcium channel; Dihydropyridine; Thapsigargin; Spinal cord; Brainstem; Striatum (Bernstein, M.A. (696) 83)

μ-Opioid receptor agonist; DAMGO; Local cerebral glucose utilization; Brain site; Limbic epilepsy; Memory; Mood (Fabian, I. (697) 205)

Anterior pretectal nucleus; Pretectum; Diencephalon; Mesencephalon; Thalamus; *Phaseolus vulgaris* leucoagglutinin (Terenzi, M.G. (701) 183)

Antinociceptive effect
Substance P; Microphotometry; Thiamine deficiency; Immunohistochemical estimation; Spinal cord (Tadano, T. (696) 21)

Antiopioid
Neuropeptide FF; Opiate; Hyperalgesia; Pain facilitatory system; Central nervous system (Devillers, J.-P. (700) 173)

Antioxidant
Blood–brain barrier; Diabetes; Peroxidation (Mooradian, A.D. (671) 164)

Brain biliverdin reductase; Heme degradation; Carbon monoxide; Bilirubin (Ewing, J.F. (672) 29)

Aging; α-Tocopherol; Ascorbate; Cognition; Free radical; Phenyl-α-*tert*-butylnitrone; TBARS (Socci, D.J. (693) 88)

Global ischemia; LY 231617; Rat (Block, F. (694) 308)

Antioxidant enzyme
Glutathione; Mitochondria; Astrocyte; Granule cell; Cell culture (Huang, J. (680) 16)

Antipeptide serum
$GABA_A$ receptor; γ_{2L} subunit; Ethanol; Rat; Mouse (San Juan, I. (698) 209)

Antipsychotic
Neurotensin; Striatum; Nucleus accumbens; Hybridization, in situ; Basal ganglia; γ-Aminobutyric acid (Decker, K.P. (691) 9)

Antipsychotic drug
Glutamate; Taurine; Neuroleptic; Tardive dyskinesia; Striatum (Lidsky, T.I. (686) 104)

Antisense
Circadian rhythm; Suprachiasmatic nucleus; Pacemaker; Protein synthesis; Anisomycin; Cell culture; Vasopressin (Watanabe, K. (684) 179)

μ- or κ-Opioid receptor; Oligodeoxynucleotide; Body temperature; Opioid agonist (Chen, X.-H. (688) 237)

Antisense oligodeoxynucleotide
Antinociception; κ-1 Opioid; Δ^9-THC (Pugh, Jr., G. (689) 157)

N-Methyl-D-aspartate; Neuroprotection; Traumatic brain injury; Mortality; Behavioral recovery; Astrocytic reaction (Sun, F.-Y. (693) 163)

Antisense oligonucleotide
Transfection; Calcium-activated protease; Excitatory amino acid; Synaptic dysfunction; Excitotoxicity; Neuropathology (Bednarski, E. (694) 147)

Antispasticity
Baclofen; Antinociception; Spinal rat (Bertman, L.J. (684) 8)

Anti-sweet taste
Gurmarin; Rat; *Gymnema sylvestre* (Miyasaka, A. (676) 63)

Anxiety
Benzodiazepine; Central amygdala; Basolateral amygdala; Midazolam; Ro 15-1788 (Pesold, C. (671) 213)

Cocaine withdrawal; Corticotropin-releasing factor; Plus maze (Sarnyai, Z. (675) 89)

Amygdala; Brain mince; Corticotropin-releasing factor; Development; Maternal stress; Prenatal stress (Cratty, M.S. (675) 297)

Steroid; Motor activity; Burying behavior; Rat; 3α-Hydroxy-5α-pregnan-20-one; Progesterone (Picazo, O. (680) 135)

Odor preference; Estrous female odor; Neurosteroid; Pregnenolone sulfate; *N*-Methyl-D-aspartate receptor; Male sexual interest; Olfactory response (Kavaliers, M. (682) 222)

Periaqueductal gray; Amygdala; Fear; Analgesia; Enkephalin (Da Costa Gomez, T.M. (689) 21)

Rat strain; Novel environments; Tryptophan hydroxylase; Serotonin-1A receptors; Hypothalamo-pituitary-adrenal axis; Locomotor activity (Chaouloff, F. (693) 169)

Exploration; Cerebellum; Spatial orientation; Inhibition (Monnier, C. (702) 169)

Anxiolytic
Buspirone; rCMRglc; Serotonin 5-HT; DPAT (Freo, U. (677) 213)

AP5
Spinal cord; Descending serotonergic pathway; Serotonin; 5-HT_{1A} and NMDA receptor; 8-OH-DPAT; Sleep; EEG power spectrum; Rat (Bjørkum, A.A. (692) 251)

Spreading depression; Cerebral cortex; Ketamine; *N*-Methyl-D-aspartate receptor; MK-801 (Rashidy-Pour, A. (693) 64)

AP7
Seizure; Glutamate; Glycine; 5,7-Dichlorokynurenic acid; (+)HA-966; ACPC; D-CPP; Dizocilpine; Strychnine (Peterson, S.L. (702) 101)

APB
Metabotropic glutamate receptor; L-2-Amino-4-phosphonobutyric acid; ON bipolar cell; Electroretinogram; Whole cell recording (Thoreson, W.B. (676) 93)

Apis mellifera
Cyclic AMP-dependent protein kinase; Chemosensory system; Signal transduction; Brain; Insect (Hildebrandt, H. (679) 281)

Aplysia
Lipoxygenase; Eicosanoid; FMRFa; Electrophysiology (Abe, M. (683) 200)

Action potential; Protein kinase C; Phorbol diacetate; H-7 (Papp, A. (684) 107)

***Aplysia* neurons**
Nitric oxide; Ionic mechanism; Increased Na^+ conductance; Cyclic GMP (Sawada, M. (670) 248)

Apneusis
Control of respiration; *N*-Methyl-D-aspartate receptor; Dizocilpine; Anesthetics; Mice; Rodent (Cassus-Soulanis, S. (679) 25)

APO-1
Astrocyte; Apoptosis; CD95 (Nishimura, T. (695) 137)

ApoE3 / E4
Smooth muscle cell; β-Protein; Transthyretin; Tissue culture (Mazur-Kolecka, B. (698) 217)

Apolipoprotein A-IV
Gastric ulceration; Central nervous system; 2-Deoxy-D-glucose; Indomethacin (Okumura, T. (673) 153)

Apolipoprotein E
Apolipoprotein J; Global cerebral ischemia; Cardiac arrest; Rat; Alzheimer's disease (Kida, E. (674) 341)

Aging; Amyloidosis; Neuropathology; Proteoglycans (Permanne, B. (685) 154)

Apolipoprotein J; Alzheimer's disease; Down's syndrome; β-Amyloid; Fibrillogenesis; Immunocytochemistry; Immunoelectron microscopy (Kida, E. (685) 211)

Immunohistochemistry; Electron microscopy; Neuron; Plasma membrane; Lysosome (Tooyama, I. (691) 235)

Apolipoprotein J
Apolipoprotein E; Global cerebral ischemia; Cardiac arrest; Rat; Alzheimer's disease (Kida, E. (674) 341)

Apolipoprotein E; Alzheimer's disease; Down's syndrome; β-Amyloid; Fibrillogenesis; Immunocytochemistry; Immunoelectron microscopy (Kida, E. (685) 211)

Apomorphine
Striatum; 3-Nitropropionic acid; Quinolinic acid; Huntington's disease; Rotational behavior; Motor behavior asymmetry (Borlongan, C.V. (676) 231)

Sensitization; 6-Hydroxydopamine; Glutamate; *N*-Methyl-D-aspartate (Gancher, S. (682) 63)

(±)-1-(2,5-Dimethoxy-4-iodophenyl)-aminopropane; 5-HT_2 receptor; Amphetamine; Dopamine; D_2 autoreceptor; Microdialysis; Rat (Ichikawa, J. (698) 204)

Apomorphine-induced stereotypy
Magnetic stimulation; Depression; Electroconvulsive shock; Swim test; Seizure inhibition (Fleischmann, A. (699) 130)

Apoptosis
Delayed neuronal death; DNA fragmentation; Cerebral ischemia; Gerbil; Hippocampus (Iwai, T. (671) 305)

Human oligodendrocyte; Pre-oligodendrocyte; Basic fibroblast growth factor; Statin (Prabhakar, S. (672) 159)

Cell death; Development; Olfactory bulb; Olfaction; Plasticity; Sensory deprivation (Najbauer, J. (674) 245)

Cerebellar granule neuron; Thapsigargin; Cell survival; Calcium (Levick, V. (676) 325)

Hypoxia-ischemia; Internucleosomal cleavage; Neonatal; DNA damage; Cell death (Hill, I.E. (676) 398)

Hippocampus; Dentate gyrus; Adrenalectomy; Cell death; Dexamethasone (Sloviter, R.S. (682) 227)

Programmed cell death; SV40 large T antigen; Neuronal cell line (Hisanaga, K. (684) 79)

Astrocyte; APO-1; CD95 (Nishimura, T. (695) 137)

Bcl-2; Oncogene; Alzheimer's disease; Human brain; Immunohistochemistry; Neurofibrillary tangle; PHF-1; AT8; Cell death (Satou, T. (697) 35)

DNA fragmentation; Global brain ischemia; Granular cell; Purkinje cell; Nick-end labeling (Hara, A. (697) 247)

Carbamazepine; DNA fragmentation; Cerebellar granule cell; *N*-Methyl-D-aspartate; Aurintricarboxylic acid; Cycloheximide (Gao, X.-M. (703) 63)

DNA fragmentation; Bcl-2; MPP^+; SH-SY5Y cell (Itano, Y. (704) 240)

Appetite
Rat; Diet; Protein; Brain; Hypothalamus; Retina; Tyrosine; Dopamine; Catecholamine (Fernstrom, M.H. (672) 97)

Apteronotus leptorhynchus
Somatostatin; Paracrine release; Autocrine function; Prepacemaker nucleus; Pacemaker nucleus; Electric fish; Biocytin; Gymnotiformes (Stroh, T. (674) 1)

APV
Long-term potentiation; Theta-frequency primed burst; Current source density; Inhibitory interneuron; CA3 (Roth, L.R. (694) 40)

D-APV
γ-Aminobutyric acid; Baclofen; Hippocampus; Memory; CGP-35348; Plasticity; *N*-Methyl-D-amphetamine (Brucato, F.H. (677) 326)

Arachidonate
Brain; Docosahexaenoate; Palmitate; Deoxyglucose; Quantitative autoradiography; Visual system; Orbital enucleation; Rat; Fatty acid; Lipid; Phospholipid; Glucose; Vision; Neuroplasticity (Wakabayashi, S. (679) 110)

Arachidonic acid
Astrocyte; Microglia; Eicosanoid; Prostaglandin; Leukotriene (Matsuo, M. (685) 201)

Brain injury; Fluid percussion; Phosphatidylinositol bisphosphate; Diacylglycerol; Free fatty acid (Dhillon, H.S. (698) 100)

ARC 239
Hippocampus; Norepinephrine release; α_2-Adrenoceptor subtype; BRL 44408; Microdialysis; Receptor binding (Kiss, J.P. (674) 238)

Arcuate nucleus
Neuropeptide Y mRNA; Proopiomelanocortin; Neuropeptide Y receptor; Hybridization, in situ; Autoradiography (Garcia de Yebenes, E. (674) 112)

Galanin; Estrogen receptor; Immunocytochemistry; Female rat (Horvath, T.L. (675) 321)

β-Endorphin; Met-enkephalin; Cerebrospinal fluid; Analgesia; High performance liquid chromatography; Periaqueductal gray; Opioid (Bach, F.W. (690) 167)

Excitotoxicity; *N*-Methyl-D-aspartate; Neurodegeneration; Neuronal culture; Microdialysis; Amino acid (Puka-Sundvall, M. (705) 65)

Area 3b
Squirrel monkey; Correlated activity; Dynamic maintenance; Syndactyly (Garraghty, P.E. (686) 119)

Area postrema
Nucleus of solitary tract; Pontine parabrachial nucleus; Learning; Conditioned taste aversion; Emetic drug; c-Fos-like immunoreactivity (Swank, M.W. (673) 251)

Wistar rat; WKY rat; Osmoreception; Immediate-early gene; Paraventricular hypothalamus; Supraoptic nucleus; Lamina terminalis (Rowland, N.E. (675) 127)

Estrous cycle; Glucoprivation; Metabolic fuel; Nucleus of the solitary tract; 2-Deoxy-D-glucose (Schneider, J.E. (698) 107)

Circumventricular organ; Potassium channel; Sodium channel; Angiotensin II (Hay, M. (705) 199)

A_1 receptor
Hypoxia; Hippocampus; Hyperexcitability; Adenosine; A_2 receptor (Doolette, D.J. (677) 127)

A_2 receptor
Hypoxia; Hippocampus; Hyperexcitability; Adenosine; A_1 receptor (Doolette, D.J. (677) 127)

Arginine
Autoregulation; Cerebral blood flow; Hypertension; Nitric oxide; Nitric oxide synthase; Rat (Talman, W.T. (672) 48)

L-Arginine
Cortical ischemia; Cerebral blood flow; Brain metabolite; Infarct volume (He, Z. (699) 208)

Arginine-vasopressin
Bed nucleus of the stria terminalis; Paraventricular nucleus; Renal hypertension (Earle, M.L. (669) 41)

Corticotropin-releasing factor; Oxytocin; ACTH; Corticosterone (Romero, L.M. (676) 151)

Ventrolateral hypothalamus; Sexual differences; Quantitative autoradiography (Delville, Y. (681) 91)

Quantitative autoradiography; Lactation; Ventrolateral hypothalamus; Dorsomedial hypothalamic nucleus; Suprachiasmatic nucleus (Delville, Y. (689) 147)

Learned helplessness; Aversive memory (Kumar, K.B. (699) 293)

Hypothalamic slice; Corticosterone; Calcium (Liu, X. (704) 19)

Aromatase
Zebra finch; Song control; Estradiol; Neuron (Merten, M.D.P. (671) 317)

Estrogen receptor; Aging; Quail; Sexual behavior (Dellovade, T.L. (674) 181)

Aromatase control
Sexual behavior; Aromatase synthesis; Preoptic area; *Coturnix japonica*; Japanese quail; Reproduction (Foidart, A. (701) 267)

Aromatase synthesis
Sexual behavior; Aromatase control; Preoptic area; *Coturnix japonica*; Japanese quail; Reproduction (Foidart, A. (701) 267)

Aromatic L-amino acid decarboxylase
L-5-Hydroxytryptophan; Serotonin; Monoamine oxidase; Dopaminergic neuron; Noradrenergic neuron; Substantia nigra pars compacta; Locus coeruleus (Arai, R. (669) 145)

Dopamine; Striatum; 6-Hydroxydopamine; L-Dihydroxyphenylalanine; Parkinson's disease; Immunocytochemistry (Mura, A. (704) 51)

Aromatic L-aminoacid decarboxylase
Suprachiasmatic nucleus; Tyrosine hydroxylase; Ontogenesis; Immunohistochemistry; Confocal laser scanning microscopy; Vasoactive intestinal polypeptide; Somatostatin; Neuropeptide Y (Battaglia, A.A. (696) 7)

Aromatization
Facial nucleus; Newborn rat; Estrogen receptor (Orikasa, C. (693) 112)

Arterial pressure
Lateral parabrachial nucleus; Angiotensin II; Water intake; Thirst; Local anesthetic (Menani, J.V. (695) 250)

Arteriovenous
Brain slice; Electrophysiology; Hippocampus; Hypoglycemia; Hypoxia; Ischemia; Steal (Sekhon, L.H.S. (704) 107)

Arthritis
Neurogenic inflammation; Symmetry; Neuropeptide (Kidd, B.L. (688) 72)

Arthropod
Sodium channel; Mechanoreceptor; Immunocytochemistry; Spider; Glia; Sensory (Seyfarth, E.-A. (683) 93)

Arylamine *N*-acetyltransferase
Acetyl-CoA; Serotonin *N*-acetyltransferase; Circadian rhythm; Melatonin (Wolfe, M.S. (669) 100)

Ascending auditory projections
Inferior colliculus; Enkephalin; Neuropeptide Y; Commissural fiber; Rat (Nakagawa, H. (690) 236)

Ascorbate
GSH; Astrocyte; Dehydroascorbate; Brain (O'Connor, E. (680) 157)

Aging; α-Tocopherol: Antioxidant; Cognition; Free radical; Phenyl-α-*tert*-butylnitrone; TBARS (Socci, D.J. (693) 88)

Ascorbic acid
Typical/atypical antipsychotics; Amineptine; Behavior; Mouse (De Angelis, L. (670) 303)

L-DOPA; Parkinson's disease; Dopamine neuron; Neurotoxicity; Rat mesencephalic cell culture (Pardo, B. (682) 133)

Free radical; Glutathione; Ischemia; Turtle; Rat; Temperature; Metabolism (Pérez-Pinzón, M.A. (705) 45)

ASF/SF2
Amyloid precursor protein; Alternative splicing; P19; Embryonal carcinoma; Differentiation; U2AF (Tsukahara, T. (679) 178)

Aspartate
Brain ageing; Glutamate; Synaptosome; Glucose (Martínez, M. (673) 149)

Cocaine; Cocaine self-administration; Neurotransmitter turnover rate; Dopamine; Noradrenaline; Serotonin; γ-Aminobutyric acid; Glutamate (Dworkin, S.I. (682) 116)

Cocaine; Glutamate; Microdialysis; Nucleus accumbens; Stereotypy (Smith, J.A. (683) 264)

Methylmercury; Rat; Astrocyte; Glutathione; Glutamate (Aschner, M. (689) 1)

D-Aspartate
Alzheimer's disease; PHF-tau; Normal tau (Kenessey, A. (675) 183)

Cadmium chloride; Rat; Astrocyte; Metallothionein (Rising, L. (678) 91)

Aspartate release
Ethanol; Glutamate release; Hippocampus; [^{3}H]Noradrenaline release (Sepúlveda, C. (674) 104)

Locus coeruleus; Push–pull superfusion; Glutamate release; GABA release; Immobilization stress; Tail pinch; Blood pressure (Singewald, N. (704) 42)

Asphyxia
Newborn; Na^+,K^+-ATPase; Brain; Striatum; Reoxygenation (Goplerud, J.M. (696) 161)

Association cortex
Development; Morphometry; Basal dendrite; Dendritic arborization; Cerebral cortex; Golgi–Cox; Infant (Koenderink, M.J.Th. (678) 233)

Association neocortex
AMPA/kainate receptor; Glutamate receptor; Human brain; Pyramidal neuron (Vickers, J.C. (671) 175)

Associative LTP
CA1 region; Atropine; Acetylcholine; Synaptic plasticity; Hippocampus; Rat (Sokolov, M.V. (672) 281)

Astrocyte
Hydrogel; Schwann cell; Regeneration; Rat visual system; Immunohistochemistry (Plant, G.W. (671) 119)

Potassium; Hypertonicity; αB-Crystallin; Heat-shock protein (Iwaki, T. (673) 47)

Peripheral benzodiazepine receptor; Growth factor; Diazepam; Basic fibroblast growth factor; Proliferation; DNA synthesis (Neary, J.T. (675) 27)

Parathyroid hormone-related protein; Meninges; Glial limiting membrane (Struckhoff, G. (676) 1)

NGF synthesis; NGF mRNA; Guanosine; GTP; Neurotrophin; ATP; Adenosine; Cyclic AMP (Middlemiss, P.J. (677) 152)

Cell culture; Astroglia; Neuron; Immunocytochemistry; Gluconeogenesis (Schmoll, D. (677) 341)

Cadmium chloride; Rat; Metallothionein; D-Aspartate (Rising, L. (678) 91)

Glycogen phosphorylase; Serotonin; 3,4-Methylenedioxymethamphetamine; Glycogen; Metabolism (Poblete, J.C. (680) 9)

Glutathione; Antioxidant enzyme; Mitochondria; Granule cell; Cell culture (Huang, J. (680) 16)

GSH; Ascorbate; Dehydroascorbate; Brain (O'Connor, E. (680) 157)

Connexin-43; Gap junction; Immunohistochemistry; Kainic acid; *N*-Methyl-D-aspartate; Transblot, in situ (Sawchuk, M.A. (683) 153)

Microglia; Arachidonic acid; Eicosanoid; Prostaglandin; Leukotriene (Matsuo, M. (685) 201)

Microglia; Cerebellum; Hippocampus; Cyclic GMP; Nitric oxide; Noradrenaline; Glutamate (Agulló, L. (686) 160)

Intermediate filament; Auditory brainstem nucleus; Aging; Immunohistochemistry (Jalenques, I. (686) 223)

Morphine; Opioid; Macrophage; Brain cell culture; Microglia; C6 glioma; Kupffer cell (Dobrenis, K. (686) 239)

Methylmercury; Rat; Aspartate; Glutathione; Glutamate (Aschner, M. (689) 1)

Axon regeneration; Extracellular matrix; Protease; Adhesion molecule (Fok-Seang, J. (689) 207)

β-Amyloid; Neurotoxicity; Glutamate; Excitotoxicity; Neurons; Hippocampal cell culture; Cortical cell culture; Alzheimer's disease (Gray, C.W. (691) 169)

Adrenergic receptor; Norepinephrine; Isoproterenol; Adenosine; Astrocyte; Cyclic AMP transport; Cerebral cortex; Cyclic AMP; Phosphodiesterase; Secretion; Transport (Rosenberg, P.A. (692) 227)

Adrenergic receptor; Norepinephrine; Isoproterenol; Adenosine; Cyclic AMP transport; Cerebral cortex; Cyclic AMP; Phosphodiesterase; Astrocyte; Secretion; Transport (Rosenberg, P.A. (692) 227)

Transplantation; Striatum; Glial fibrillary acidic protein; Migration; Thalamus; Ventral mesencephalon (Pundt, L.L. (695) 25)

Apoptosis; APO-1; CD95 (Nishimura, T. (695) 137)

Calcium; Immunocytochemistry; Protein kinase C; Suprachiasmatic nucleus; Vasopressin (Van der Zee, E.A. (701) 99)

Rat; Brain; Protein kinase C (Roisin, M.-P. (701) 297)

Lipopolysaccharide; Microglia; 6-hydroxydopamine; Tyrosine hydroxylase; Dopamine; Parkinson's disease; Substantia nigra (Bronstein, D.M. (704) 112)

Astrocytic cell
Corticotropin releasing factor binding protein; Expression; Neuronal cell (Behan, D.P. (698) 259)

Astrocytic reaction
N-Methyl-D-aspartate; Antisense oligodeoxynucleotide; Neuroprotection; Traumatic brain injury; Mortality; Behavioral recovery (Sun, F.-Y. (693) 163)

Astroglia
Oligodendroglia; CO_2; Brain; Carbonic anhydrase II (Agnati, L.F. (676) 10)

Bergmann glia; Immunohistochemistry; Western blotting (Mendis, D.B. (676) 69)

Cell culture; Astrocyte; Neuron; Immunocytochemistry; Gluconeogenesis (Schmoll, D. (677) 341)

Proliferation; Oxytocin; Vasopressin; Mitogen; Rat (Lucas, R.L. (681) 218)

Astrogliosis
Glial fibrillary acidic protein; Cytokine; Ciliary neurotrophic factor; Tumor necrosis factor-α; ED1; MHCII; Microglia (Kahn, M.A. (685) 55)

AT8
Bcl-2; Oncogene; Alzheimer's disease; Human brain; Apoptosis; Immunohistochemistry; Neurofibrillary tangle; PHF-1; Cell death (Satou, T. (697) 35)

Ataxia
Vestibular stimulation; Neuronal activity; γ-Aminobutyric acid; Cerebellum; Morphometry; Cerebellectomy; Compensation (Grüsser-Cornehls, U. (703) 51)

Athlete
Testosterone; Steroid receptor; Steroid abuse; Hypothalamus; Castration; Immunocytochemistry; Optical density; Opioid peptide (Menard, C.S. (669) 255)

Atipamezole
Dexmedetomidine; Epilepsy; Hippocampus; Kainic acid; Neuronal damage; Status epilepticus (Halonen, T. (693) 217)

ATP
Zinc; Dopamine release; Intracellular Ca^{2+} concentration; ATP-activated current; PC12 cells (Koizumi, S. (673) 75)

NGF synthesis; NGF mRNA; Astrocyte; Guanosine; GTP; Neurotrophin; Adenosine; Cyclic AMP (Middlemiss, P.J. (677) 152)

Hippocampal slice; Hypoxia; Glucose deprivation; Intracellular recording; Intracellular calcium; Lactate (Takata, T. (683) 109)

P_{2Y} purinoceptor; Dopamine; Striatum; Microdialysis; Ion channel (Zhang, Y.-X. (691) 205)

ATP-activated current
Zinc; ATP; Dopamine release; Intracellular Ca^{2+} concentration; PC12 cells (Koizumi, S. (673) 75)

(Na^+,K^+)-ATPase
NO-generating drug; Cerebral cortex; Porcine; NO; Oxidative NO derivative (Sato, T. (704) 117)

ATP content
Glutamate neurotoxicity; *N*-Methyl-D-aspartate receptor; Kainate receptor; Energetic stress (Marcaida, G. (695) 146)

AT_2 receptor
Angiotensin II; Quantitative autoradiography; CGP 42112; Medial geniculate nucleus; Inferior olive; Brain development (Heemskerk, F.M.J. (677) 29)

Autoradiography; OX-42; ED1; Immunohistochemistry; Kainic acid; Gliosis; Hippocampus; Angiotensin (Jöhren, O. (702) 153)

AT_4 receptor
Angiotensin II; Angiotensin IV; Autoradiography; c-Fos expression; Hippocampus; Rat; Guinea pig (Roberts, K.A. (682) 13)

Atrial natriuretic peptide
Olfactory bulb; Synaptosome; Receptor (Haver, E. (681) 75)

Olfactory bulb; Olfaction; Autoradiography; Receptor (Bachar, C. (682) 231)

Atrial volume receptor
Water intake; Lateral parabrachial nucleus; Isoproterenol; Rat (Ohman, L.E. (695) 275)

Atropine
Control of breathing; Acetylcholine; Isolated brainstem; 3-Bromopyruvate; Hydroxycitrate; Citrate; Triethylcholine (Burton, M.D. (670) 39)

Associative LTP; CA1 region; Acetylcholine; Synaptic plasticity; Hippocampus; Rat (Sokolov, M.V. (672) 281)

Intracerebroventricular; Mean arterial pressure; Heart rate; Pirenzepine; 4-DAMP; Methoctramine; Anesthesia (Ally, A. (677) 268)

Acetylcholine; Muscarine; slow EPSP; Alcohol; Electrophysiology; Intracellular recording; Eserine (Madamba, S.G. (685) 21)

Glucose; Sleep; Memory; Spontaneous alternation; Paradoxical sleep (Stone, W.S. (694) 133)

Indomethacin; Kainic acid; TRH antibody; Gastric acid secretion (Kaneko, H. (699) 97)

Acetylcholine release; CP 93129; Fimbria-fornix; Hippocampus; Mecamylamine; Methiothepin; 2-methyl-Serotonin; Oxotremorine; Septal graft (Cassel, J.-C. (704) 153)

Attention
Songbird; Auditory learning; Habituation; 2-Deoxyglucose; Caudal auditory telencephalon (Scharmann, M.G. (682) 83)

Audiogenic seizure
Imipenem; DBA/2 mouse; Excitatory amino acid antagonist; Anticonvulsant drug; Epilepsy seizure (De Sarro, G. (671) 131)

Genetic reflex epilepsy; Photogenic seizure; Neural chimera; Fayoumi epileptic chicken (Fadlallah, N. (675) 55)

Reticular formation; Seizure network; Startle; Habituation; Genetically epilepsy-prone rat (Faingold, C.L. (704) 218)

Auditory
Caudate-putamen; Globus pallidus; Sensorimotor integration; Somatosensory; Electrophysiology; Rat; Multisensory response properties (Chudler, E.H. (674) 33)

Visual; Polysensory; Evoked potential (Barth, D.S. (678) 177)

Auditory brain stem
Small cell cap; Granule cells; Biotinylated dextran amine; Retrograde transport; Olivocochlear fibers (Zhao, H.B. (700) 295)

Auditory brainstem nucleus
Astrocyte; Intermediate filament; Aging; Immunohistochemistry (Jalenques, I. (686) 223)

Auditory cortex
Somatosensory cortex; Evoked potential; Gamma; Spontaneous EEG (MacDonald, K.D. (694) 1)

Auditory evoked potential
Middle-latency response; Scopolamine; Acetylcholine; Rat (Campbell, K.A. (702) 110)

Auditory evoked response
Hippocampus; Cholinergic; Fimbria-fornix lesion (Bickford, P.C. (705) 235)

Auditory learning
Songbird; Attention; Habituation; 2-Deoxyglucose; Caudal auditory telencephalon (Scharmann, M.G. (682) 83)

Neural network; Structural equation modeling; Multimodal interaction; Pavlovian conditioning; Path analysis; 2-Deoxyglucose; Rat (McIntosh, A.R. (683) 228)

Auditory nerve
Spontaneous activity; Development; Cochlea; Chicken; Hearing; Basilar papilla; Rhythmic (Lippe, W.R. (703) 205)

Auditory stimulation
REM sleep; Brainstem; Diencephalon; c-fos (Merchant-Nancy, H. (681) 15)

Auditory system
Cell death; Nucleus magnocellularis; Y10B antibody; Protein synthesis; Afferent deprivation; Brain slice (Hyson, R.L. (672) 196)

Aurintricarboxylic acid
Carbamazepine; Apoptosis; DNA fragmentation; Cerebellar granule cell; *N*-Methyl-D-aspartate; Cycloheximide (Gao, X.-M. (703) 63)

Autocrine function
Somatostatin; Paracrine release; Prepacemaker nucleus; Pacemaker nucleus; Electric fish; Biocytin; Gymnotiformes; *Apteronotus leptorhynchus* (Stroh, T. (674) 1)

Autodigestion
μ-Calpain; Proteinase; Proenzyme; Calcium; Immunohistochemistry; Neuron; Nucleus (Onizuka, K. (697) 179)

Autonomic
Somatic; Intermediolateral cell column; Dorsal root ganglia; Renin–angiotensin system (Moeller, I. (701) 301)

Autonomic nervous system
A-current; Anomalous rectifier; Brainstem slice; Central adrenergic neuron; DiI retrograde transport; Medulla oblongata; Pacemaker neurons; Persistent sodium current; Medulla oblongata; Sympathetic nervous system; Vasomotor control (Kangrga, I.M. (670) 215)

Airway smooth muscle; Pneumotaxic center (Motekaitis, A.M. (671) 314)

Cardiovascular regulation; Corticotrophin releasing factor; Enkephalin; Heart; Lateral hypothalamic area; Medulla oblongata; Neuropeptide Y; Oxytocin; Paraventricular hypothalamic nucleus; Pseudorabies virus; Raphe nuclei; Serotonin; Somatostatin; Stellate ganglion; Sympathetic nervous system (Jansen, A.S.P. (683) 1)

Excitatory amino acid receptor; Ventilation; Dorsal horn (Wong, M.K.C. (683) 149)

Calcium binding protein; Neuropeptide Y; Immunohistochemistry; Retrograde neuronal tracing; Sympathetic neuron; Chemical coding (Grkovic, I. (684) 127)

Sympathetic preganglionic neuron; Oxytocin receptor; Spinal cord; Slice; In vitro; Intracellular recording; Biocytin (Desaulles, E. (699) 139)

Autoradiography
α_1-Adrenergic receptor; α_{1A} and α_{1B} subtype; Noradrenaline; Cerebral cortex; Seizure; Kindling; Epilepsy (Gundlach, A.L. (672) 214)

Neuropeptide Y mRNA; Proopiomelanocortin; Arcuate nucleus; Neuropeptide Y receptor; Hybridization, in situ (Garcia de Yebenes, E. (674) 112)

Vasopressin; Testosterone; Hamster; Medial preoptic area; Anterior hypothalamus; Flank marking (Johnson, A.E. (674) 153)

Acute and chronic stress; Immobilization; Brain protein synthesis; L-[^{35}S]Methionine; Rat (Giaume, M. (675) 121)

Angiotensin; Receptor; Subtype; Human; Brain; Losartan (MacGregor, D.P. (675) 231)

α_{2A}-Adrenergic receptor; Imidazoline I_1- and I_2-receptor(s); Rilmenidine; Clonidine; Idazoxan (King, P.R. (675) 264)

Nucleus tractus solitarii; Spontaneously hypertensive rat; Angiotensin II; α_2-Adrenoceptor; Blood pressure; Heart rate (Fior, D.R. (679) 168)

Dopamine receptor; Substantia nigra; Behaviour; *N*-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline (Lee, C.Y. (681) 205)

Angiotensin II; Angiotensin IV; AT_4 receptor; c-Fos expression; Hippocampus; Rat; Guinea pig (Roberts, K.A. (682) 13)

Atrial natriuretic peptide; Olfactory bulb; Olfaction; Receptor (Bachar, C. (682) 231)

Androgen; Castration; CA1; Hippocampus; MK801; *N*-Methyl-D-aspartate; Testosterone (Kus, L. (683) 270)

Neuropeptide Y-(13–36); Neuropeptide Y receptor; PYY binding; Spontaneously hypertensive rat; Nucleus tractus solitarius; Blood pressure; Intracerebroventricular injection; Rat brain (Aguirre, J.A. (684) 159)

Protein kinase C; Phorbol ester binding; Inhibitory avoidance; Hippocampus; Amygdala (Bernabeu, R. (685) 163)

Serotonin transporter; Gene expression; Dorsal raphe nucleus; Hybridization, in situ; *p*-Chlorophenylalanine (Yu, A. (688) 209)

Substantia innominata; Basalis nucleus of Meynert; Zona incerta; Cerebral blood flow; Electrical stimulation; Alzheimer's disease (Vaucher, E. (691) 57)

Iron uptake; Ferrotransferrin receptor; Parkinson's disease; Human; MPTP (Faucheux, B.A. (691) 115)

Cerebral blood flow; Transient focal ischemia; Penumbra; Middle cerebral artery occlusion; Rat (Takagi, K. (691) 160)

Imidazoline receptor; Nucleus tractus solitarius; Rostral ventrolateral medulla; Clonidine; Barodenervation; Hypotension (El-Mas, M.M. (691) 195)

Estrogen receptor; Brain; Sexual differentiation (Kühnemann, S. (691) 229)

Human; Newborn; Brainstem; Neurokinin-1; Substance P; Binding site (Jordan, D. (695) 117)

Nucleus basalis; Glutamate receptor subtype; *N*-Methyl-D-aspartate receptor; AMPA receptor; Kainate receptor; γ-Aminobutyric acid receptor; Benzodiazepine receptor; Image analysis (Roßner, S. (696) 165)

Glucose transport; Brain metabolism; Local cerebral glucose utilization; Immunoautoradiography; Glucose metabolism; Antibody (Zeller, K. (698) 175)

Cytokine; Triangular septal nucleus; Septofimbrial nucleus; Habenular nucleus; Interpeduncular nucleus; Blood–brain barrier; Capillary; Choroid plexus (Maness, L.M. (700) 83)

Ring dove; 2-Deoxyglucose; Prolactin; Incubation (Lea, R.W. (700) 129)

[^{14}C]2-Deoxyglucose; Incubation; Ring dove; Nucleus preopticus medialis; Nucleus tuberis; Nucleus ovoidalis; Paleostriatum primitivum (Georgiou, G.C. (700) 137)

AT_2 receptor; OX-42; ED1; Immunohistochemistry; Kainic acid; Gliosis; Hippocampus; Angiotensin (Jöhren, O. (702) 153)

Autoradiography, in vivo
Opioid receptor; Social play; Social isolation; Diprenorphine (Vanderschuren, L.J.M.J. (680) 148)

Autoreceptor
7-OH-DPAT; Dopamine D_3 receptor; ICSS; Voltammetry (Gilbert, D.B. (681) 1)

Metabotropic glutamate receptor; Excitatory amino acid; Magnesium; Positive feedback; Spinal cord (Gotani, H. (689) 281)

Autoregulation
Arginine; Cerebral blood flow; Hypertension; Nitric oxide; Nitric oxide synthase; Rat (Talman, W.T. (672) 48)

N^G-Nitro-L-arginine methyl ester; Nitroarginine; Local cerebral blood flow; [^{14}C]Iodoantipyrine; Cerebral blood flow; Brain (Takahashi, S. (678) 21)

Autospectral analysis
Coherence analysis; Electroencephalogram; Harmaline; Inferior olivary activity (Barman, S.M. (671) 345)

Autotransplantation
Nucleus basalis magnocellularis; Nodosal ganglion; Bifemelane hydrochloride; Cholinergic marker; Event-related potential (P300) (Ikeda, K. (688) 171)

Aversion
Brain stimulation; Defense; Kainate; $GABA_A$ antagonist; c-*fos* Proto-oncogene; Medial hypothalamus; Limbic system (Silveira, M.C.L. (674) 265)

Brain stimulation reward; Self-stimulation; Analgesia; Ventral tegmental area; Nucleus reticularis gigantocellularis (Anderson, R. (688) 15)

Aversive memory
Learned helplessness; Arginine-vasopressin (Kumar, K.B. (699) 293)

Avian brain
Transferrin binding protein; Oligodendrocyte; Immunocytochemistry (Cho, S.S. (674) 15)

$AVP_{(4-8)}$
$AVP_{(4-9)}$; Fragment peptide; Receptor autoradiography; Cell culture; Intracellular Ca^{2+}; Immunocytochemistry; Fura-2 (Jurzak, M. (673) 349)

$AVP_{(4-9)}$
$AVP_{(4-8)}$; Fragment peptide; Receptor autoradiography; Cell culture; Intracellular Ca^{2+}; Immunocytochemistry; Fura-2 (Jurzak, M. (673) 349)

Axon
Protein synthesis; Hyperactivity; Goldfish; M-neuron; Plasticity (Eugenín, J. (677) 319)

Tau; Focal cerebral ischaemia; Rat; Cytoskeleton; Glia (Dewar, D. (684) 70)

Calcium dependent ATPase; Electron microscopic histochemistry; Sciatic nerve; Peripheral nerve; Schwann cell; Plasma membrane (Mizutani, Y. (693) 95)

Axonal bifurcation
Retinal ganglion cell; Lateral geniculate nucleus; Retrograde fluorescent tracer; Double-labeling (Dong, K. (703) 231)

Axonal collateral
Respiration; Ventral respiratory group; Nucleus retroambigualis; Inspiratory neuron; Spinal cord; Phrenic nucleus; Brainstem (Sasaki, S.-I. (701) 108)

Axonal degeneration
Amyloid β-protein; Mutant mouse; Animal model; Amyloid precursor protein (Ichihara, N. (695) 173)

Axonal pathology
Acute; Traumatic spinal cord injury; Giant axon (Anthes, D.L. (702) 1)

Axonal regeneration
Nerve graft; Schwann cell; Basal lamina; Nerve gap repair; Peripheral nerve; Rat (Gulati, A.K. (705) 118)

Axonal reticulum
Nerve ligation; Noradrenergic neuron; Axonal transport; Neurosecretory granule; Nerve terminal; Immunocytochemistry (Quatacker, J. (680) 36)

Axonal transport
Amyloid protein precursor; Transient global ischemia; Gerbil; Immunoelectron microscopy; Multivesicular body (Tomimoto, H. (672) 187)

Cholera toxin; Tract tracing; Inferior olive; Climbing fiber (Chen, S. (674) 107)

Axonal reticulum; Nerve ligation; Noradrenergic neuron; Neurosecretory granule; Nerve terminal; Immunocytochemistry (Quatacker, J. (680) 36)

[^{3}H]Resiniferatoxin autoradiography; Vanilloid receptor; Capsaicin-sensitive neuron; Nodose ganglia; Capsazepine (Szallasi, A. (703) 175)

Axonal transport control
Axoplasmic transport; Adrenaline; Acetylcholine; Desensitization; Superior cervical ganglion; Organelle motion (Kawakami, T. (683) 88)

Axon collateral
Cerebellar nucleus; Inferior olive; Red nucleus; Cholera toxin β-subunit; Gold-lectin tracer (Teune, T.M. (673) 313)

Substantia nigra pars reticulata; Superior colliculus; Parvicellular reticular formation; Rat (Yasui, Y. (674) 122)

Axon regeneration
Astrocyte; Extracellular matrix; Protease; Adhesion molecule (Fok-Seang, J. (689) 207)

Axon terminals
Foetal alcohol syndrome; Horseradish peroxidase; Teratogenesis; Sensorimotor cortex (Santarelli, M. (698) 241)

Axoplasmic transport
Adrenaline; Acetylcholine; Desensitization; Superior cervical ganglion; Organelle motion; Axonal transport control (Kawakami, T. (683) 88)

Axotomy
Degeneration; Survival; Neurotrophin-3; Ciliary neurotrophic factor (Weibel, D. (679) 249)

LIF; IL-1β; Receptor; Substance P; Sympathetic; Regulation; Nuclease protection assay; mRNA; Schwann cell; Fibroblast (Ludlam, W.H. (685) 12)

Sciatic nerve; Spinal motoneuron; Neurotrophin; Cell death (Schmalbruch, H. (700) 254)

NR-1; c-*jun*; mRNA; Nerve crush; Glutamate receptor; Development (Hay, C. (704) 145)

GAP-43; Dorsal root ganglia; Neuroaxonal dystrophy (Ohara, S. (705) 325)

5-Azacytidine
Mouse; Developmental alteration; Brain damage; Hyperactivity; Parental behavior; Naive female; Experience effect (Londei, T. (677) 61)

B

B7-1
Antigen-presenting cell; B7-2; Costimulatory molecule; Human astrocyte; Human microglia (Satoh, J.-i. (704) 92)

B7-2
Antigen-presenting cell; B7-1; Costimulatory molecule; Human astrocyte; Human microglia (Satoh, J.-i. (704) 92)

B-50
GAP-43; Neuromodulin; *Xenopus laevis*; Expression; Phylogeny; Tetraploidy (Shain, D.H. (697) 241)

B-50 / GAP-43
Promoter; Transcription; Translation; Polyribosome (Eggen, B.J.L. (690) 73)

Baclofen
γ-Aminobutyric acid; Hippocampus; Memory; CGP-35348; D-APV; Plasticity; *N*-Methyl-D-amphetamine (Brucato, F.H. (677) 326)

Place learning; Morris water maze task; 2-Hydroxysaclofen; Oxotremorine; Motor incoordination (Nakagawa, Y. (683) 209)

Antispasticity; Antinociception; Spinal rat (Bertman, L.J. (684) 8)

Genetic epilepsy; Neuron sensitivity; $GABA_A$ receptor; Muscimol; Flunitrazepam; Purkinje neuron; Iontophoresis; Ligand binding (Gould, E.M. (698) 62)

GABA-withdrawal syndrome; Electroencephalogram; Cerebral cortex; Spike-and-wave; Epilepsy (Brailowsky, S. (702) 126)

Subfornical organ; γ-Aminobutyric acid; $GABA_A$ receptor; $GABA_B$ receptor; Muscimol; Bicuculline (Inenaga, K. (705) 85)

Ballooned neuron
Corticobasal degeneration; Oxidative stress; Pick disease; Glial inclusion; Neuropil thread (Castellani, R. (696) 268)

Bandwidth
Guinea pig; Mapping; Receptive field; Threshold; Tuning (South, D.A. (704) 275)

Barodenervation
Imidazoline receptor; Nucleus tractus solitarius; Rostral ventrolateral medulla; Clonidine; Hypotension; Autoradiography (El-Mas, M.M. (691) 195)

Baroreceptor
Cardiovascular; Blood pressure; Ultrastructure; Tract tracing (Aicher, S.A. (693) 51)

Carotid sinus nerve; Chemoreceptor; Histochemistry; Immunocytochemistry; Synapse; Transganglionic transport; Ultrastructure (Gatti, P.J. (693) 133)

Baroreceptor reflex
Glutamate; Amino acids; Nucleus tractus solitarii; Denervation; Nodose ganglion; Blood pressure (Colombari, E. (677) 110)

Baroreflex
Medulla; Cat; Lateral tegmental field; Sympathoinhibition; α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; Kynurenic acid (Dempesy, C.W. (704) 141)

Baroreflex control
Angiotensin II; Angiotensin II antagonist; Caudal ventrolateral medulla; Blood pressure; Renal sympathetic nerve activity (Sesoko, S. (671) 38)

Barrel
Development; Thalamic axon; AChE (Bennett-Clarke, C.A. (702) 255)

Barrel receptor field
Traumatic brain injury; Recovery of function; Plasticity; Vibrissa; Multimodality; Occipital cortex; Vicariation (Dunn-Meynell, A.A. (675) 143)

Basal dendrite
Association cortex; Development; Morphometry; Dendritic arborization; Cerebral cortex; Golgi–Cox; Infant (Koenderink, M.J.Th. (678) 233)

Basal forebrain
Septum; Diagonal band of Broca; Monoamine; Electron microscopy; Learning and memory; Alzheimer's disease (Milner, T.A. (670) 121)

Human; Aging; Histochemistry; Nitric oxide synthase; Nitric oxide; Plasticity (Benzing, W.C. (670) 351)

Cat; Enkephalin; Substance P; Cholinergic system; Immunocytochemistry (Rieck, R.W. (672) 237)

Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin; Neuronal survival (Nonomura, T. (683) 129)

Rat; $GABA_A$ receptor α_1 subunit-immunoreactivity; Calcium-binding protein; Choline acetyltransferase; Glutamic acid decarboxylase (Härtig, W. (692) 215)

Excitotoxin; *N*-Methyl aspartic acid; Calcification; Cholinergic; Alzheimer's disease; Down's syndrome (Stewart, G.R. (695) 81)

Excitatory amino acid; Lithium; Passive avoidance; Neurotoxicity (Pascual, T. (695) 289)

Preoptic area; Anterior hypothalamus; Sleep–wake regulation; Non-REM sleep; Thermosensitivity (Alam, Md.N. (696) 221)

Basal ganglia
Cytochrome oxidase; *N*-Methyl-D-aspartate; Subthalamic nucleus; Succinate dehydrogenase (Blandini, F. (669) 59)

^{1}H-magnetic resonance spectroscopy; Lactate; Motor task; Brain function (Kuwabara, T. (670) 326)

Striatum; Calretinin; Calcium-binding proteins; Human brain; Immunohistochemistry (Parent, A. (674) 347)

Parkinson's disease; Dyskinesia; $GABA_A$ receptor; Dopamine receptor; Globus Pallidus; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (Calon, F. (680) 43)

Substantia nigra; Dopamine; Tyrosine hydroxylase; Mesolimbic; Nigrostriatal (Tan, Y. (689) 151)

CGS 21680; Adenosine A_{2a} receptor; Dopamine D_2 receptor; Binding affinity (Hillefors-Berglund, M. (690) 34)

Neurotensin; Striatum; Nucleus accumbens; Hybridization, in situ; Antipsychotic; γ-Aminobutyric acid (Decker, K.P. (691) 9)

Marijuana; Cannabis; Circling; Catalepsy (Anderson, L.A. (691) 106)

Putamen; Caudate nucleus; Globus pallidus; Primate; Single neuron; Motor control; Movement; Movement direction; Precue; Ipsilateral (Jaeger, D. (694) 111)

Striatum; Striatopallidal projection; Striatonigral projection; Single-cell labeling study; Cynomolgus monkey; *Macaca fascicularis* (Parent, A. (698) 280)

Dopamine; 6-Hydroxydopamine lesion; Motor function; On-off phenomenon; Glutamate antagonist; *N*-Methyl-D-aspartate; MK-801 (Papa, S.M. (701) 13)

OX7-saporin; Volkensin; Synapses; Ultrastructure; Ricin (Roberts, R.C. (701) 227)

Basalis nucleus of Meynert
Substantia innominata; Zona incerta; Cerebral blood flow; Autoradiography; Electrical stimulation; Alzheimer's disease (Vaucher, E. (691) 57)

Basal lamina
Nerve graft; Schwann cell; Axonal regeneration; Nerve gap repair; Peripheral nerve; Rat (Gulati, A.K. (705) 118)

Basement membrane
Alzheimer's disease; Blood–brain barrier; Cerebral microvessel; Collagen IV; Hydroxyproline (Kalaria, R.N. (705) 349)

Basic fibroblast growth factor
Alzheimer's disease; Phospholipase C-δ, Tau; Electron microscopy; Solubilization (Shimohama, S. (669) 217)

Human oligodendrocyte; Pre-oligodendrocyte; Statin; Apoptosis (Prabhakar, S. (672) 159)

Spermine; Spermidine; Putrescine; Neurite regeneration; Cultured hippocampal neuron (Chu, P.-j. (673) 233)

Peripheral benzodiazepine receptor; Growth factor; Diazepam; Astrocyte; Proliferation; DNA synthesis (Neary, J.T. (675) 27)

Chicken; Form-deprivation myopia; Dopaminergic amacrine cell; Stroboscopic illumination (Rohrer, B. (686) 169)

Angiogenesis; Hippocampus; Intracerebral hemorrhage; Intracerebral mass lesion; Ischemia; Protective effect; Rat (Kawakami, N. (697) 104)

Parkinson's disease; Epidermal growth factor; Glia; Neurotrophin; Ischemia; Neuronal survival; MPP^+ (Akaneya, Y. (704) 175)

Basilar papilla
Spontaneous activity; Development; Cochlea; Chicken; Hearing; Rhythmic; Auditory nerve (Lippe, W.R. (703) 205)

Basolateral amygdala
Anxiety; Benzodiazepine; Central amygdala; Midazolam; Ro 15-1788 (Pesold, C. (671) 213)

Long-term potentiation; Hippocampus; Tetracaine; Neuron activity (Ikegaya, Y. (671) 351)

Basolateral complex
Amygdala; Escape training; Inhibitory avoidance; Learning; Memory; Retention (Parent, M.B. (676) 235)

Batrachotoxin
Planar lipid bilayer; Lidocaine; Local anesthetic; Subconductance; Sodium channel (Salazar, B.C. (699) 305)

Bay K 8644
Epibatidine; Nicotinic acetylcholine receptor; Analgesia; Calcium channel (Bannon, A.W. (678) 244)

Calcium channel; GT1-7 neuron; Voltage-dependent Ca^{2+} channel; Nimodipine; Conotoxin; Hypothalamus; GnRH (Javors, M.A. (694) 49)

BCECF
Intracellular pH; Intracellular calcium; Fura-2; Glutamate; Cortical neuron (OuYang, Y.-B. (676) 307)

Bcl-2
Oncogene; Alzheimer's disease; Human brain; Apoptosis; Immunohistochemistry; Neurofibrillary tangle; PHF-1; AT8; Cell death (Satou, T. (697) 35)

Apoptosis; DNA fragmentation; MPP^+; SH-SY5Y cell (Itano, Y. (704) 240)

BD737
Sigma receptor; Norepinephrine; Hippocampus; *N*-Methyl-D-aspartate receptor; (+)Pentazocine; DuP 734 (Gonzalez-Alvear, G.M. (673) 61)

Bed nucleus of the stria terminalis
Arginine-vasopressin; Paraventricular nucleus; Renal hypertension (Earle, M.L. (669) 41)

Behavior
Middle cerebral artery; Cerebral ischemia; Muscarinic agonist; Acetylcholine; Rat (Yamaguchi, T. (669) 107)

Ascorbic acid; Typical/atypical antipsychotics; Amineptine; Mouse (De Angelis, L. (670) 303)

Morphine withdrawal; Naloxone; *N*-Methyl-D-aspartate receptor; Nitric oxide; Spinal cord; Blood pressure; Heart rate (Buccafusco, J.J. (679) 189)

Cannabinoid; Opioid; Tetrahydrocannabinol; Analgesia; Withdrawal; Perinatal (Vela, G. (680) 142)

β-Amyloid; Conditional discrimination; Memory (Cleary, J. (682) 69)

Tachykinin; Substance P; SP-Fragment; Central cardiovascular control; Tachykinin receptor; Central nervous system (Tschöpe, C. (690) 15)

Saturable transport; Therapeutics; Pharmacokinetics; Mouse (Banks, W.A. (695) 59)

Brainstem; Itch; Opioid; Rat; Scratching; Trigeminal nucleus (Thomas, D.A. (695) 267)

Midline thalamus; Epinephrine; Cholera toxin subunit B; Immunohistochemistry; Phenylethanolamine *N*-methyltransferase; Rat (Otake, K. (697) 17)

Sex difference; Pain; β-Endorphin; Formalin test; Rat (Aloisi, A.M. (699) 242)

Temperature; Spatial navigation; *N*-Methyl-D-aspartate antagonist; Ischemia (Green, E.J. (702) 145)

Activity; Cadmium; Cocaine; Sensitization; Toxicity (Nation, J.R. (702) 223)

Behavioral recovery
N-Methyl-D-aspartate; Antisense oligodeoxynucleotide; Neuroprotection; Traumatic brain injury; Mortality; Astrocytic reaction (Sun, F.-Y. (693) 163)

Behavioral sensitization
Medial prefrontal cortex; Dopamine; Nucleus accumbens; Excitatory amino acid; Glycine B receptor; Locomotion (Morrow, B.A. (673) 165)

Dopamine; Enkephalin; Immediate-early gene; Hybridization, in situ; Nucleus accumbens (Wang, J.Q. (673) 262)

Amphetamine; Dopamine receptor; Serotonin receptor; Quantitative autoradiography (Bonhomme, N. (675) 215)

Behaviour
Neurotoxicity; Neonatal; Muscarinic acetylcholine receptor; Insecticide; Organophosphate; Diisopropylfluorophosphate (Ahlbom, J. (677) 13)

Dopamine receptor; Substantia nigra; *N*-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Autoradiography (Lee, C.Y. (681) 205)

Benzodiazepine
p-Chloroamphetamine; Monoamine; Locomotor activity; Circadian rhythm (Penev, P.D. (669) 207)

Anxiety; Central amygdala; Basolateral amygdala; Midazolam; Ro 15-1788 (Pesold, C. (671) 213)

Dependence; Tolerance; Cyclic AMP; Morphine (Sheu, M.-J. (675) 31)

γ-Aminobutyric acid; Harmaline; Clonazepam; Picrotoxin; Hippocampus (Weiss, M. (695) 105)

Ro 15-4513; $GABA_A$ receptor; Hippocampus; Cerebellum; Medulla; Spinal cord (Mehta, A.K. (704) 289)

Benzodiazepine / $GABA_A$ receptor complex
State-dependent learning; Ethanol; Diazepam; Muscimol; Rat (Nakagawa, Y. (686) 70)

Benzodiazepine receptor
Hepatic encephalopathy; Antibiotic; *Acinetobacter*; Rat; Brain (Yurdaydin, C. (679) 42)

Nucleus basalis; Glutamate receptor subtype; *N*-Methyl-D-aspartate receptor; AMPA receptor; Kainate receptor; Autoradiography; γ-Aminobutyric acid receptor; Image analysis (Roßner, S. (696) 165)

Suprachiasmatic nucleus; Intergeniculate leaflet; Subparaventricular zone; Paraventricular hypothalamic nucleus; Paraventricular thalamic nucleus; Retrochiasmatic area; γ-Aminobutyric acid (Gao, B. (700) 142)

Bergmann glia
Immunohistochemistry; Western blotting; Astroglia (Mendis, D.B. (676) 69)

Betaxolol
Fos; Stress; Noradrenergic system; Prazosin; ICI118551; Fluphenazine; Ketanserin; WAY 100135 (Stone, E.A. (694) 279)

Bezold–Jarisch reflex
Fos; Medulla oblongata (Gieroba, Z.J. (683) 43)

BIBN 99
Cholinergic; M2 antagonist; Memory; Morris water maze; Muscarinic; Rat; Traumatic brain injury; Treatment (Pike, B.R. (686) 37)

Bicuculline
Brain slice; Serotonin; 8-OH-DPAT; Epileptiform; Hippocampus; Intracellular (Salgado, D. (669) 176)

Passive avoidance; Memory deficit; Picrotoxin; Flumazenil; Leu-enkephalin (Dubrovina, N.I. (670) 347)

Putamen; Dystonia; Neuronal mechanism; Substantia nigra pars reticulata; Single unit recording (Yamada, H. (677) 333)

State-dependent learning; Muscimol; Place learning; Morris water maze task; Rat (Nakagawa, Y. (681) 126)

Radioimmunoassay; PAG; γ-Aminobutyric acid; Nociception; Opioid peptide (Williams, F.G. (690) 207)

Ethyl-β-Carboline-3-Carboxylate; γ-Aminobutyric acid; L-Glutamate; Muscimol; Picrotoxin; Tyrosine hydroxlase and phenethyl-*N*-methyl transferase immunoreactive cell; Vasodepressor neuron (Gatti, P.J. (693) 80)

Subfornical organ; γ-Aminobutyric acid; $GABA_A$ receptor; $GABA_B$ receptor; Muscimol; Baclofen (Inenaga, K. (705) 85)

Bicuculline methiodide
Social interaction; Conflict; Kindling; Long-term potentiation (Sanders, S.K. (699) 250)

Extracellular field potential; γ-Aminobutyric acid; Magnesium; Potassium; Seizure (Watson, P.L. (700) 227)

Bicyclic dinitrile
GABA receptor; RDL (resistance to dieldrin) subunit; *Drosophila melanogaster*; Convulsant site (Hosie, A.M. (693) 257)

Bidirectional response sensitivity
Otolith; Vestibular nuclear neuron; Off-vertical axis rotation; Spatial property; Response dynamic; Rat (Lai, C.H. (693) 39)

Bifemelane hydrochloride
Nucleus basalis magnocellularis; Nodosal ganglion; Autotransplantation; Cholinergic marker; Event-related potential (P300) (Ikeda, K. (688) 171)

Bilateral projection
Suprageniculate nucleus; Superior colliculus; WGA–HRP; Fluorescent tracer; Double-labeled neuron; Light and electron microscopy; Extrageniculate visual system; Cat (Katoh, Y.Y. (669) 298)

Bilirubin
Brain biliverdin reductase; Heme degradation; Carbon monoxide; Antioxidant (Ewing, J.F. (672) 29)

Cyclic GMP; Cytochrome P_{450}-reductase; Heme oxygenase; Iron; Protoporphyrin (Laitinen, J.T. (694) 246)

Bimodal agonist action of endogenous opioid
Peptide blockers of excitatory opioid receptor function; [des-Tyr^1]dynorphin A-(1-13); β-Endorphin-(1-27); Dorsal root ganglion neuron; Action potential shortening vs. prolongation (Shen, K.-F. (673) 30)

nor-Binaltorphimine
Calcitonin gene-related peptide; $CGRP_{8-37}$; β-Funaltrexamine; Naltrindole; Naloxone; Opioid receptor; Hindpaw withdrawal latency (Yu, L.-C. (698) 23)

Binding
Olfactory receptor neuron; Whole cell patch clamp; Olfaction; Mixture; Interaction; Transduction; Spiny lobster; Crustacean (Simon, T.W. (678) 213)

Glucocorticoid receptor; Adrenalectomy; Western blotting; Hippocampus; Frontal cortex (O'Donnell, D. (687) 133)

Binding affinity
CGS 21680; Adenosine A_{2a} receptor; Dopamine D_2 receptor; Basal ganglia (Hillefors-Berglund, M. (690) 34)

Binding site
Growth hormone-releasing factor; Pituitary; Gpp(NH)p; Reducing agent; Aging (Lefrançois, L. (673) 39)

Human; Newborn; Brainstem; Neurokinin-1; Substance P; Autoradiography (Jordan, D. (695) 117)

Biocytin
Somatostatin; Paracrine release; Autocrine function; Prepacemaker nucleus; Pacemaker nucleus; Electric fish; Gymnotiformes; *Apteronotus leptorhynchus* (Stroh, T. (674) 1)

Parafascicular nucleus; Thalamus; Raphe system; Dextran amine; Motor control; Rat (Marini, G. (690) 177)

Sympathetic preganglionic neuron; Oxytocin receptor; Spinal cord; Slice; In vitro; Autonomic nervous system; Intracellular recording (Desaulles, E. (699) 139)

Nucleus of the optic tract; Descending projection; Anterograde tracer; Monkey (Kato, I. (705) 109)

Biological clock
Circadian rhythm; Suprachiasmatic nucleus; Synchronization; Electrophysiology (Bouskila, Y. (670) 333)

Biological half-life
Brain; Zinc; Manganese; Zinc-containing neuron terminal (Takeda, A. (695) 53)

Biotinylated dextran amine
Small cell cap; Granule cells; Auditory brain stem; Retrograde transport; Olivocochlear fibers (Zhao, H.B. (700) 295)

Bird
Intracerebroventricular infusion; Metabolic rate; Brain; Acute cold exposure (Montaron, A. (702) 49)

Bladder
Micturition; Sexual reflex; Defecation (Song, L. (675) 165)

Blood–brain barrier
Aging; Free radical; Peroxidation (Mooradian, A.D. (671) 159)

Antioxidant; Diabetes; Peroxidation (Mooradian, A.D. (671) 164)

Nanoparticle; Dalargin; Leu-enkephalin analog; Polysorbate 80; Peptide delivery to the brain (Kreuter, J. (674) 171)

Osmolality; Demyelination; Magnetic resonance imaging (Adler, S. (679) 135)

Permeability; Unbound bilirubin; Newborn (Lee, C. (689) 233)

Taurine; Transport; Brain perfusion technique; Permeability; Endothelial cell (Benrabh, H. (692) 57)

Endothelium; Microvessel; Tight junction; CNS inflammation (Biegel, D. (692) 183)

Histamine; Bradykinin; Serotonin; Cerebral endothelium; Vascular permeability (Butt, A.M. (696) 145)

Cytokine; Triangular septal nucleus; Septofimbrial nucleus; Habenular nucleus; Interpeduncular nucleus; Autoradiography; Capillary; Choroid plexus (Maness, L.M. (700) 83)

HU-211; Photochemical cortical infarction; Evans blue (Belayev, L. (702) 266)

Rat; Spinal cord; Subarachnoid space; Capillary; Electron microscope (Fujimoto, K. (702) 284)

RMP-7; Bradykinin analog; Tight junction; Permeability; Lanthanum; Hypotension (Sanovich, E. (705) 125)

Alzheimer's disease; Basement membrane; Cerebral microvessel; Collagen IV; Hydroxyproline (Kalaria, R.N. (705) 349)

Blood-brain barrier
Fever mechanism; Neonate; Pyrogen; Prostaglandin; Leukotriene; Platelet activating factor; Organum vasculosum laminae terminalis (Coceani, F. (700) 191)

Brain edema; Matrix metalloproteinase; Plasminogen activator; Tumor necrosis factor-α; Rat (Rosenberg, G.A. (703) 151)

Liposome; Phenytoin; Amygdala; Dibutyryl-cAMP; Status epilepticus; Horseradish peroxidase (Mori, N. (703) 184)

Blood pressure
Serotonin $5\text{-}HT_2$ receptors; Serotonin $5\text{-}HT_3$ receptors; Supersensitivity; Nucleus; Tractus solitarius; Hypertensive rat (Merahi, N. (669) 130)

Angiotensin II; Angiotensin II antagonist; Caudal ventrolateral medulla; Baroreflex control; Renal sympathetic nerve activity (Sesoko, S. (671) 38)

Glutamate; Amino acids; Baroreceptor reflex; Nucleus tractus solitarii; Denervation; Nodose ganglion (Colombari, E. (677) 110)

Autoradiography; Nucleus tractus solitarii; Spontaneously hypertensive rat; Angiotensin II; α_2-Adrenoceptor; Heart rate (Fior, D.R. (679) 168)

Morphine withdrawal; Naloxone; *N*-Methyl-D-aspartate receptor; Nitric oxide; Spinal cord; Heart rate; Behavior (Buccafusco, J.J. (679) 189)

Neuropeptide Y-(13–36); Neuropeptide Y receptor; PYY binding; Spontaneously hypertensive rat; Nucleus tractus solitarius; Autoradiography; Intracerebroventricular injection; Rat brain (Aguirre, J.A. (684) 159)

Vasopressin; Norepinephrine; Neuropeptide Y; Heart rate; Sexual dimorphism (Sato, K. (689) 71)

Cardiovascular control; Orthostatic hypotension; Motion sickness; Vomiting; Sympathetic nervous system (Yates, B.J. (689) 197)

Cardiovascular; Baroreceptor; Ultrastructure; Tract tracing (Aicher, S.A. (693) 51)

PACAP; Microinjection; DA; Lateral hypothalamus; Sulpride; D_2 receptor; Drinking; Osmolarity (Puig de Parada, M. (696) 254)

Dopamine; Ventral tegmental area; Substantia nigra; Raclopride; SCH 23390; Vasopressin; DiMe-C7; Substance P (Cornish, J.L. (701) 28)

Locus coeruleus; Push–pull superfusion; Glutamate release; Aspartate release; GABA release; Immobilization stress; Tail pinch (Singewald, N. (704) 42)

Kallikrein-kinin system; Kallikrein; Kinin antagonist; Central nervous system; Rat brain; Brainstem (Privitera, P.J. (704) 103)

Blood vessel
Retinal ganglion cell; Müller cell; Amacrine cell; Nitric oxide synthase (Huxlin, K.R. (692) 195)

Body temperature
Alcohol; LTP; Memory; θ-Pattern (Givens, B. (688) 27)

MPTP; MPP^+; Neurotoxicity; Dopamine; Deprenyl; Heat shock protein (Freyaldenhoven, T.E. (688) 161)

Antisense; μ- or κ-Opioid receptor; Oligodeoxynucleotide; Opioid agonist (Chen, X.-H. (688) 237)

Corticosterone; Interleukin-1β; Adrenalectomy; RU38486; Social behaviour; Mouse (Goujon, E. (702) 173)

Body weight
Interleukin-1; Interleukin-1 receptor antagonist; Social behavior; Rat (Bluthé, R.-M. (677) 171)

Botulinum toxin
Sensory neuron; Carbonic anhydrase; Peripheral target interaction; Vinblastine (Mayeux, V. (694) 191)

Bötzinger neuron
Pre-sympathetic neuron; C1 catecholaminergic neuron; Electrophysiology; Extracellular recording; Cardiovascular control; Respiratory control (Kanjhan, R. (699) 19)

Bovine
Myosin light chain kinase; Myosin; Myosin heavy chain; Calmodulin; Central nervous system; Immunocytochemistry (Shimada, H. (682) 212)

Bovine cerebellar receptor
Sigma receptor; Affinity chromatography; 3-PPP; Haloperidol; Photoaffinity labeling; Rat cerebellar receptor (Schuster, D.I. (670) 14)

BQ-123, Cyclo (-D-Trp-D-Asp-Pro-D-Val-Leu-)
Endothelin-1; Regional vascular resistance; IRL 1620, N-Suc-(Glu^9,Ala^{11,15})ET-1(8-21); Regional blood flow; Systemic hemodynamics; Sprague–Dawley rat; Central nervous system (Rebello, S. (676) 141)

Bradykinin
Nitric oxide synthase; Human cerebral artery; Endothelium; Ultrastructural localization; Translocation (Fukuda, S.-i. (696) 30)

Blood–brain barrier; Histamine; Serotonin; Cerebral endothelium; Vascular permeability (Butt, A.M. (696) 145)

Bradykinin analog
RMP-7; Blood–brain barrier; Tight junction; Permeability; Lanthanum; Hypotension (Sanovich, E. (705) 125)

Bradykinin antagonist (Hoe 140)
Angiotensin II; Losartan; Paraventricular hypothalamus; Supraoptic nucleus; Lamina terminalis; Kininase II inhibitor; Enalapril; Captopril (Rowland, N.E. (669) 73)

Brain
Focal ischemia; Dizocilpine maleate; Infarct size; Hyperthermia; Rat (Memezawa, H. (670) 48)

Glutamate; MK-801 binding (McGowan, J.E. (670) 283)

Rat; Diet; Protein; Hypothalamus; Retina; Tyrosine; Dopamine; Catecholamine; Appetite (Fernstrom, M.H. (672) 97)

Flavin-containing monooxygenase; Metabolism; Neuroleptic; Antidepressant; Monooxygenase; Human brain (Bhamre, S. (672) 276)

Interleukin-6; Interleukin-1; Differentiation; Fura-2; Glutamate; Caffeine; Depolarization (Holliday, J. (673) 141)

Angiotensin; Receptor; Subtype; Human; Losartan; Autoradiography (MacGregor, D.P. (675) 231)

Sheep; Fetus; Calcium; Ontogeny; Glucocorticoid (McDonald, T.J. (675) 303)

Oligodendroglia; Astroglia; CO_2; Carbonic anhydrase II (Agnati, L.F. (676) 10)

Convulsion; Hyperbaric oxygen; Excitatory amino acid; γ-Aminobutyric acid; Ammonia; Mouse (Mialon, P. (676) 352)

Adenosine; Adenosine receptor; Hippocampus; Cerebral cortex; Cerebellum; Striatum; Immunohistochemistry (Rivkees, S.A. (677) 193)

Pregnenolone; Neurosteroid; Steroidogenesis; Japanese quail (Tsutsui, K. (678) 1)

Cytochrome P450scc; Localization; Immunohistochemistry; Immunoblotting; Japanese quail (Usui, M. (678) 10)

N^G-Nitro-L-arginine methyl ester; Nitroarginine; Local cerebral blood flow; [^{14}C]Iodoantipyrine; Cerebral blood flow; Autoregulation (Takahashi, S. (678) 21)

Benzodiazepine receptor; Hepatic encephalopathy; Antibiotic; *Acinetobacter*; Rat (Yurdaydin, C. (679) 42)

Arachidonate; Docosahexaenoate; Palmitate; Deoxyglucose; Quantitative autoradiography; Visual system; Orbital enucleation; Rat; Fatty acid; Lipid; Phospholipid; Glucose; Vision; Neuroplasticity (Wakabayashi, S. (679) 110)

NADPH-diaphorase; Enzyme histochemistry; Nitric oxide; Goldfish (Villani, L. (679) 261)

Cyclic AMP-dependent protein kinase; Chemosensory system; Signal transduction; *Apis mellifera*; Insect (Hildebrandt, H. (679) 281)

GSH; Astrocyte; Ascorbate; Dehydroascorbate (O'Connor, E. (680) 157)

(3-8)Angiotensin; C6 glioma; AngIV receptor; Renin angiotensin system (Wyse, B. (681) 41)

[^{3}H]Cytisine; Immobilization stress; Chronic nicotine treatment (Takita, M. (681) 190)

Direct current; Rat; Sensorimotor cortex; Dark neuron; ^{45}Ca autoradiography; Anodal polarization (Islam, N. (684) 206)

Neuronatin; Development; Gene; Neuroepithelium; Proliferation; Commitment; Differentiation; Migration (Joseph, R. (690) 92)

Estrogen receptor; Sexual differentiation; Autoradiography (Kühnemann, S. (691) 229)

Dexamethasone; Endothelin B receptor mRNA; Endothelin mRNA; Down-regulation; Rat (Shibata, K. (692) 71)

Animal model; Neuron; Rhesus monkey; Stereology (Pakkenberg, H. (693) 201)

Zinc; Manganese; Biological half-life; Zinc-containing neuron terminal (Takeda, A. (695) 53)

Copper; Manganese; Molybdenum; Rubidium; Zinc; Long-Evans Cinnamon rat; Wilson disease (Saito, T. (695) 240)

FITC-albumin; Cerebral venule; Venular pressure; Calphostin C; Sphingosine; Vascular permeability; Rat (Mayhan, W.G. (696) 106)

Asphyxia; Newborn; Na^+,K^+-ATPase; Striatum; Reoxygenation (Goplerud, J.M. (696) 161)

Cyclooxygenase-2; Lipopolysaccharide; Fever; Hybridization, in situ; Prostaglandin (Cao, C. (697) 187)

Alzheimer's disease; Membrane; Lipid; Ethanolamine plasmalogen (Ginsberg, L. (698) 223)

2-Deoxy-D-[^{14}C]glucose; Pain; Analgesia; Rat; Glucose (Gescuk, B.D. (701) 279)

Astrocyte; Rat; Protein kinase C (Roisin, M.-P. (701) 297)

Intracerebroventricular infusion; Metabolic rate; Bird; Acute cold exposure (Montaron, A. (702) 49)

Neuropeptide; Hypophysiotropic hormone; Amphibian; Reproduction; Immunohistochemistry (Collin, F. (703) 111)

D1 Dopamine receptor; D2 Dopamine receptor; Pregnancy (Bakowska, J.C. (703) 191)

Protein kinase C; Adenylate cyclase; Second messenger; Aging; Receptor autoradiography; Rat (Araki, T. (704) 227)

NADPH-diaphorase; Ultrastructural localization; Neuron; Endothelial cell; Glial cell; Goldfish (Villani, L. (705) 332)

Brain ageing
Glutamate; Aspartate; Synaptosome; Glucose (Martínez, M. (673) 149)

Brain angiotensin system
Hippocampus; Circumventricular organ; Guanine nucleotide; Receptor pharmacology; Quantitative autoradiography (De Oliveira, A.M. (705) 177)

Brain area
Glutathione; Amino acid; Aging; Liver; Malnutrition (Benuck, M. (678) 259)

Brain biliverdin reductase
Heme degradation; Carbon monoxide; Antioxidant; Bilirubin (Ewing, J.F. (672) 29)

Brain cell culture
Corticotropin-releasing hormone; CRH receptor; Extrahypothalamic; Cyclic AMP; Anterior pituitary; Modulation; Corticosterone; Protein kinase C; Dexamethasone; Vasopressin; Glucocorticoid (Kapcala, L.P. (678) 207)

Morphine; Opioid; Macrophage; Microglia; Astrocyte; C6 glioma; Kupffer cell (Dobrenis, K. (686) 239)

Brain damage
Mouse; 5-Azacytidine; Developmental alteration; Hyperactivity; Parental behavior; Naive female; Experience effect (Londei, T. (677) 61)

Microgyria; Discrimination learning; Ectopia; DBA; Lashley learning; Neocortex (Rosen, G.D. (681) 177)

Fodrin; MAP 2; Calpain; Neonatal; Ischemia; Hypoxia (Blomgren, K. (684) 136)

Calpain; Fodrin; Neonatal; Ischemia; Hypoxia (Blomgren, K. (684) 143)

Brain-derived neurotrophic factor
Basal forebrain; Nerve growth factor; Neurotrophin; Neuronal survival (Nonomura, T. (683) 129)

Brain development
Glycogen; Glucose; Olfactory bulb; Noradrenaline; Norepinephrine; Carnosine (Coopersmith, R. (674) 230)

Angiotensin II; AT_2 receptor; Quantitative autoradiography; CGP 42112; Medial geniculate nucleus; Inferior olive (Heemskerk, F.M.J. (677) 29)

Peroxisome; Peroxisomal membrane protein; PMP 22; Zellweger syndrome; Immunohistochemistry (Miyawaki, T. (700) 285)

Lucigenin; Ischemia model; Reoxygenation; Scavenger (Schreiber, S.J. (703) 227)

Brain dialysis
Ischemia; Pentobarbital; Acetylcholine; Choline acetyltransferase; Delayed neuronal death; Hippocampus; Gerbil (Ishimaru, H. (673) 112)

Brain edema
Blood-brain barrier; Matrix metalloproteinase; Plasminogen activator; Tumor necrosis factor-α; Rat (Rosenberg, G.A. (703) 151)

Brain energy metabolism
Streptozotocin; Acetyl-L-carnitine; Spatial learning; Choline acetyltransferase; Animal model; Neurodegeneration; Alzheimer's disease (Prickaerts, J. (674) 142)

Brain frequency responsiveness
α Rhythm; Magneto-encephalography; Brain spontaneous activity; Evoked rhythm; Brain rhythm functional correlate (Narici, L. (703) 31)

Brain function
^{1}H-magnetic resonance spectroscopy; Lactate; Basal ganglia; Motor task (Kuwabara, T. (670) 326)

Brain imaging
Alzheimer's disease; Muscarinic receptor; m2 subtype; Radioligand (Gitler, M.S. (687) 71)

Free radical; In vivo; Electron spin resonance computer tomography (Hiramatsu, M. (697) 44)

Brain injury
Fluid percussion trauma; Interleukin-1; Interleukin-1 receptor antagonist (Toulmond, S. (671) 261)

Fluid percussion; Phosphatidylinositol bisphosphate; Diacylglycerol; Free fatty acid; Arachidonic acid (Dhillon, H.S. (698) 100)

Brain interstitium
Nerve growth factor; Diffusion; Elimination; Controlled release; Polymer (Krewson, C.E. (680) 196)

Brain ischemia
Calcium channel; ω-Conopeptide MVIIC; Conopeptide; Hypothermia; Excitatory amino acid; Microdialysis; Rabbit (Wu, G. (692) 118)

Brain lactate
Cerebral ischemia; Brain pH; Reperfusion; Cardiac arrest; Brain temperature; Neutral red (LaManna, J.C. (687) 175)

Brain lesion
Receptivity; Reptile; Sexual behavior; Ventromedial hypothalamus (Kendrick, A.M. (680) 226)

Brain lesioning
Calcium channel; Glial fibrillary acidic protein; Reactive astrocyte; Verapamil hydrochloride (Klepper, S. (695) 245)

Brain mapping
Brainstem; Central activation; Cardiovascular; Forebrain; Migraine (Tassorelli, C. (682) 167)

Hypothalamus; Thalamus; Paraventricular nucleus; Microinjection; Nociception; Anorexia; Fever (Sellami, S. (694) 69)

Brain metabolism
Glucose transport; Stroke; Neuronal protein (McCall, A.L. (670) 29)

Lateral hypothalamus; Self-stimulation; Parietal; Temporal (Harley, C.W. (685) 217)

Modafinil; Excitatory amino acid; Inositol; Creatine-phosphocreatine; ^{1}H-NMR spectroscopy (Piérard, C. (693) 251)

Photoperiod; Sexual maturation; Testosterone; 2-DG; Sensory system; Quail (Teruyama, R. (697) 169)

Glucose transport; Local cerebral glucose utilization; Immunoautoradiography; Autoradiography; Glucose metabolism; Antibody (Zeller, K. (698) 175)

Brain metabolite
L-Arginine; Cortical ischemia; Cerebral blood flow; Infarct volume (He, Z. (699) 208)

Brain microdialysis
Clozapine; Chronic treatment; Dopamine release (Invernizzi, R. (670) 165)

Adenosine; Striatum; Aging; *N*-Methyl-D-aspartate receptor; Adenosine kinase; Adenosine deaminase (Pazzagli, M. (684) 103)

Brain mince
Amygdala; Anxiety; Corticotropin-releasing factor; Development; Maternal stress; Prenatal stress (Cratty, M.S. (675) 297)

Brain perfusion technique
Blood–brain barrier; Taurine; Transport; Permeability; Endothelial cell (Benrabh, H. (692) 57)

Brain pH
Cerebral ischemia; Brain lactate; Reperfusion; Cardiac arrest; Brain temperature; Neutral red (LaManna, J.C. (687) 175)

Brain protein synthesis
Acute and chronic stress; Immobilization; Autoradiography; L-[^{35}S]Methionine; Rat (Giaume, M. (675) 121)

Brain (rat)
Dopamine; Electroconvulsive stimulus (ECS); Neuropeptide; Noradrenaline; Serotonin (Stenfors, C. (698) 39)

Brain region
4-Aminopyridine; Release of radiolabelled neurotransmitters; Ca^{2+}; Synaptosome; Slice (Versteeg, D.H.G. (686) 233)

Serotonin; Norepinephrine; Dopamine; Monoamine metabolite; 5,7-Dihydroxytryptamine; Alcohol drinking; Ethanol; Dorsal raphe nucleus; Median raphe nucleus; Sprague–Dawley rat (Adell, A. (693) 70)

Brain regulation
Chronic hypoxia; Development; Glucose transporter; Glyceraldehyde 3-phosphate dehydrogenase; mRNA (Xia, Y. (675) 224)

Brain rhythm functional correlate
α Rhythm; Magneto-encephalography; Brain spontaneous activity; Evoked rhythm; Brain frequency responsiveness (Narici, L. (703) 31)

Brain self-stimulation
Microinjection; Intracraneal temperature; Dopamine; Lateral hypothalamus; Sulpiride; Dopamine D2 receptor; Neuroleptic malignant syndrome (Parada, M.A. (674) 117)

Brain site
μ-Opioid receptor agonist; DAMGO; Local cerebral glucose utilization; Limbic epilepsy; Memory; Mood; Antinociception (Fabian, I. (697) 205)

Brain slice
Serotonin; 8-OH-DPAT; Bicuculline; Epileptiform; Hippocampus; Intracellular (Salgado, D. (669) 176)

Cell death; Auditory system; Nucleus magnocellularis; Y10B antibody; Protein synthesis; Afferent deprivation (Hyson, R.L. (672) 196)

Nucleus magnocellularis; Nucleus laminaris; Medial vestibular nucleus; Inhibition; γ-Aminobutyric acid; Receptor (Hyson, R.L. (677) 117)

Glucose; Lactate; Hippocampus; Anoxia; Hypoxia; Ion transport; Synaptic transmission (Roberts, Jr., E.L. (678) 83)

6-Cyano-7-nitroquinoxaline-2,3-dione; 2,3-Dihydroxy-6-nitro-7-sulfamoylbenzo(f)quinoxaline; Kynurenate; Lateral olfactory tract; Excitatory amino acid (Yang, Q.Z. (680) 207)

Cortex; Brainstem; Hypoxia; Anoxia; Electrophysiology; In vitro (O'Reilly, J.P. (683) 179)

Newborn; Ornithine decarboxylase; Hypoxia/ischemia; Development (Packianathan, S. (688) 61)

Cerebrospinal fluid; Plasma; Amino acid; Ventromedial nucleus of the hypothalamus; Single unit activity (Nishimura, F. (691) 217)

Seizure; Nipecotic acid; Epilepsy; γ-Aminobutyric acid; Anticonvulsant (Honmou, O. (692) 273)

Intrinsic optical properties; Cell swelling; Imaging; Spectrophotometry; Rat (Kreisman, N.R. (693) 179)

Acetylcholine; AF-DX 116; Carbachol; Estrogen; 4-DAMP; M3; McN-A-343; Muscarinic receptor subtype; Oxotremorine-M; *p*-F-HHSiD; Pirenzepine; Single-unit activity (Kow, L.-M. (694) 29)

Hypothalamus; γ-Aminobutyric acid; Circadian rhythm (Gannon, R.L. (694) 264)

Pattern generation; A-current (Hsiao, C.-f. (695) 217)

Nucleus of the solitary tract; Patch clamp; Taste; Synaptic potential; Glutamate; γ-Aminobutyric acid; Neuron reconstruction (Wang, L. (702) 188)

Arteriovenous; Electrophysiology; Hippocampus; Hypoglycemia; Hypoxia; Ischemia; Steal (Sekhon, L.H.S. (704) 107)

Brain spontaneous activity
α Rhythm; Magneto-encephalography; Evoked rhythm; Brain rhythm functional correlate; Brain frequency responsiveness (Narici, L. (703) 31)

Brainstem
Pregnancy; Parturition; Maternal behavior; Preoptic area; Oxytocin; Noradrenalin (Luckman, S.M. (669) 115)

Adrenaline; Fos; Immunocytochemistry; Luteinising hormone; Noradrenaline (Condé, G.L. (672) 68)

Chemoreceptor pathway; Nucleus tractus solitarius; Norepinephrine; Tyrosine hydroxylase (Soulier, V. (674) 188)

Familial amyotrophic lateral sclerosis; Transgenic mice; Cu,Zn superoxide dysmutase (SOD); Motor neuron; Spinal cord; Peripheral nerve (Dal Canto, M.C. (676) 25)

Acute inflammation; c-*fos*; Aging; Trigeminal nerve (Iwata, K. (678) 127)

REM sleep; Auditory stimulation; Diencephalon; c-fos (Merchant-Nancy, H. (681) 15)

Kindling; Seizure; Epilepsy; Amygdaloid body; Rat (Chiba, S. (682) 50)

Brain mapping; Central activation; Cardiovascular; Forebrain; Migraine (Tassorelli, C. (682) 167)

Cortex; Hypoxia; Anoxia; Electrophysiology; In vitro; Brain slice (O'Reilly, J.P. (683) 179)

Fos; Histochemistry; Hypothalamus; Medulla; NADPH-Diaphorase; Nitric oxide; Nitroglycerin (Tassorelli, C. (695) 37)

Human; Newborn; Neurokinin-1; Substance P; Binding site; Autoradiography (Jordan, D. (695) 117)

Behavior; Itch; Opioid; Rat; Scratching; Trigeminal nucleus (Thomas, D.A. (695) 267)

Cerebellum; Immunocytochemistry; S-100β; Trypsinization (Yang, Q. (696) 49)

Morphine tolerance; L-type calcium channel; Antinociception; Dihydropyridine; Thapsigargin; Spinal cord; Striatum (Bernstein, M.A. (696) 83)

Respiration; Ventral respiratory group; Nucleus retroambigualis; Inspiratory neuron; Axonal collateral; Spinal cord; Phrenic nucleus (Sasaki, S.-I. (701) 108)

Kallikrein-kinin system; Kallikrein; Kinin antagonist; Central nervous system; Blood pressure; Rat brain (Privitera, P.J. (704) 103)

Brainstem serotonergic nuclei
Piriform cortex; Serotonin; Phaseolus vulgaris leucoagglutinin; Cholera toxin B subunit; Colchicine; Nialamide (Datiche, F. (671) 27)

Brainstem slice
A-current; Anomalous rectifier; Autonomic nervous system; Central adrenergic neuron; DiI retrograde transport; Medulla oblongata; Pacemaker neurons; Persistent sodium current; Medulla oblongata; Sympathetic nervous system; Vasomotor control (Kangrga, I.M. (670) 215)

Brain stimulation
Aversion; Defense; Kainate; $GABA_A$ antagonist; c-*fos* Proto-oncogene; Medial hypothalamus; Limbic system (Silveira, M.C.L. (674) 265)

Brain stimulation reward
Self-stimulation; Aversion; Analgesia; Ventral tegmental area; Nucleus reticularis gigantocellularis (Anderson, R. (688) 15)

Brain temperature
Djungarian hamster; Electroencephalogram; Hypothermia; Torpor; Spectral analysis (Deboer, T. (670) 153)

Cerebral ischemia; Brain pH; Brain lactate; Reperfusion; Cardiac arrest; Neutral red (LaManna, J.C. (687) 175)

Brain tissue transplantation
Allograft; Dopamine neuron; Rejection; Active immunization; Adoptive immunization (Shinoda, M. (680) 180)

Branching
Primary afferent; Dorsal root (Nagy, I. (703) 223)

Breathing control
Fastigial nucleus; Vermis; Respiratory neuron; Phrenic neurogram; Electrical stimulation; Kainic acid (Xu, F. (705) 53)

BRL 44408
Hippocampus; Norepinephrine release; α_2-Adrenoceptor subtype; ARC 239; Microdialysis; Receptor binding (Kiss, J.P. (674) 238)

Broca's area
Cortical field potential; Vocalization; Monkey; Cingulate cortex; Cerebellar hemispherectomy (Gemba, H. (697) 143)

3-Bromopyruvate
Control of breathing; Acetylcholine; Isolated brainstem; Hydroxycitrate; Citrate; Triethylcholine; Atropine (Burton, M.D. (670) 39)

Brown adipose tissue
Non-shivering thermogenesis; Thermoregulation; Decerebration; Neonate; Hypothalamus (Blumberg, M.S. (699) 214)

β-sheet structure
Alzheimer's disease; Hippocampal neuron; Leak membrane conductance; Amyloid β peptide; Aging; Whole-cell voltage-clamp; Circular dichroism spectroscopy (Li, W.Y. (682) 207)

BSPT-formazan
Nitric oxide synthase; NADPH-diaphorase; Retina; Knock-out mice; Electron microscopy; Membrane (Darius, S. (690) 231)

Bulbocavernosus
Levator ani; Ischiocavernosus; Steroid; Testosterone (Freeman, L.M. (690) 1)

Bumetanide
Regulatory volume decrease; K^+ channel blocker; Cl^- channel blocker; Ouabain; Stretch-activated channel blocker; Cytosolic Ca^{2+} (Lippmann, B.J. (686) 29)

α-Bungarotoxin
Acetylcholine receptor; Parasympathetic neuron; Neuronal bungarotoxin; Cardiac ganglion (Sargent, P.B. (680) 99)

Burst firing
Sensorimotor cortex; Pyramidal neuron; Layer V (Franceschetti, S. (696) 127)

Burying behavior
Steroid; Anxiety; Motor activity; Rat; 3α-Hydroxy-5α-pregnan-20-one; Progesterone (Picazo, O. (680) 135)

Buspirone
rCMRglc; Serotonin 5-HT; DPAT; Anxiolytic (Freo, U. (677) 213)

2,3-Butanedione
Picrotoxin; Convulsion; 2,3-Butanedione monoxime; γ-Aminobutyric acid; Anticonvulsant; Whole cell current in response to GABA (Brightman, T. (678) 110)

2,3-Butanedione monoxime
Picrotoxin; Convulsion; γ-Aminobutyric acid; Anticonvulsant; Whole cell current in response to GABA; 2,3-Butanedione (Brightman, T. (678) 110)

C

***trk*C**
Neurotrophin-3; Gene targeting; *lac*Z; Spinal cord; Sensory neuron (Tojo, H. (669) 163)

C1 adrenergic cell group
Hypertonicity; Osmoregulation; Nucleus of the solitary tract; Ventrolateral medulla; Parabrachial nucleus; Catecholamine; Cardiovascular regulation; A1 noradrenergic cell group (Hochstenbach, S.L. (674) 46)

C1 catecholaminergic neuron
Pre-sympathetic neuron; Bötzinger neuron; Electrophysiology; Extracellular recording; Cardiovascular control; Respiratory control (Kanjhan, R. (699) 19)

C1 inhibitor
Alzheimer's disease; Dystrophic neurite; Suicide reaction (Walker, D.G. (675) 75)

C6 glioma
(3-8)Angiotensin; Brain; AngIV receptor; Renin angiotensin system (Wyse, B. (681) 41)

Morphine; Opioid; Macrophage; Brain cell culture; Microglia; Astrocyte; Kupffer cell (Dobrenis, K. (686) 239)

CA1
Tau; Synaptophysin; Dentate gyrus; Mitogen-activated protein; Phosphorylation (Torack, R.M. (669) 135)

Long-term potentiation; E–S potentiation; Dendritic membrane activation; Current–source density analysis; Hippocampus; Slice; Rat (Vida, I. (671) 1)

N-Methyl-D-aspartate; Delayed neuronal injury; Glutamate; Hippocampus; Slice (Wallis, R.A. (674) 75)

Long-term potentiation; Neural cell adhesion molecule; NCAM; Hippocampus; Synaptic plasticity (Rønn, L.C.B. (677) 145)

Androgen; Castration; Hippocampus; MK801; *N*-Methyl-D-aspartate; Testosterone; Autoradiography (Kus, L. (683) 270)

Hydrogen peroxide; Hippocampus; Intracellular recording; K^+ channel; Free radical (Seutin, V. (683) 275)

Glycine; Glutamate (Wallis, R.A. (685) 225)

Spermine; Polyamine; Hippocampal slice; Field potential; Paired-pulse facilitation; Ca^{2+} channel (Ferchmin, P.A. (689) 189)

Cysteine protease inhibitor; Choroid plexus; Cerebrospinal fluid; Delayed neuronal death; γ-Trace protein (Palm, D.E. (691) 1)

Eicosanoid; Epilepsy; Excitotoxicity; Hippocampus; Input resistance (Owens Jr, J. (691) 223)

Calbindin-D28k; Corticosterone; Adrenalectomy; Dentate gyrus; Degeneration; Parvalbumin; Calcium (Krugers, H.J. (696) 89)

GAD; Immunocytochemistry; WGA-gold; Retrograde labeling; Dentate gyrus; Rat (Qiu, K. (702) 287)

Cerebral ischemia; Protein kinase II; CA3; Gerbil (Babcock, A.M. (705) 307)

CA1–CA3
(1*S*,3*R*)-1,3-Aminocyclopentane-3-dicarboxylic acid; Metabotropic glutamate receptor; *N*-Methyl-D-aspartate; LTP; Hippocampus; Synaptic transmission (Collins, D.R. (684) 165)

Ca1 neuron
Long-term potentiation; α-Tocopherol; Hippocampal slice; Excitatory post-synaptic potential; Vitamin E-deficiency (Xie, Z. (681) 193)

CA1 pyramidal neuron
Excitability; Dentate gyrus; Inhibition; TPEN (Gordey, M. (691) 125)

CA1 region
Associative LTP; Atropine; Acetylcholine; Synaptic plasticity; Hippocampus; Rat (Sokolov, M.V. (672) 281)

CA1 stratum radiatum
Schaffer collateral; Hippocampus; Estrogen; Light cycle; Sex difference (Warren, S.G. (703) 26)

Ca^{2+}
Neurotoxicity; Depolarization; Glutamate; *N*-Methyl-D-aspartate; Hippocampus; Cl^- (Takahashi, M. (675) 249)

4-Aminopyridine; Release of radiolabelled neurotransmitters; Brain region; Synaptosome; Slice (Versteeg, D.H.G. (686) 233)

Glutamate; AMPA; Kainate; Cell culture; Excitotoxicity; Spinal cord; Neurotoxicity; Calcium (Yin, H.-z. (689) 265)

Rat pinealocyte; Nitric oxide; Cyclic GMP; Phoshodiesterase; Protein kinase C (Spessert, R. (694) 207)

$[Ca^{2+}]_i$
Striatal synaptosome; Dopamine release; 4-Aminopyridine; KCl depolarization; Ca^{2+} channel (Carvalho, C.M. (669) 234)

Phospholipase A_2; Melittin; Neurotoxicity; Neuronal culture; Seizure; Rat (Clapp, L.E. (693) 101)

Ca^{2+}-activated K^+ current
Coeliac-superior mesenteric ganglia; Whole-cell patch-clamp; Perforated patch; M-Current; A-Current; Delayed rectifier K^+ current; 4-Aminopyridine; Tetraethylammonium; Muscarinic agonist (Carrier, G.O. (701) 1)

Ca^{2+}/calmodulin-dependent protein kinase II
Cerebral ischemia; Calcineurin; Hippocampus; Synaptic plasticity (Onodera, H. (684) 95)

Ca^{2+} channel
Striatal synaptosome; Dopamine release; $[Ca^{2+}]_i$; 4-Aminopyridine; KCl depolarization (Carvalho, C.M. (669) 234)

Spermine; Polyamine; Hippocampal slice; CA1; Field potential; Paired-pulse facilitation (Ferchmin, P.A. (689) 189)

Medicinal leech; Glial cell; Retzius neurone; Intracellular Ca^{2+}; Extracellular K^+; Menthol (Hochstrate, P. (696) 231)

κ-Opioid receptor; U-69,593; Dihydropyridine; Analgesia (Barro, M. (672) 148)

Ca^{2+} channel antagonist
Exocytosis; Rat chromaffin cell; Ca^{2+} current; Membrane capacitance measurement (Kim, S.J. (675) 289)

Ciliary ganglion cell; Fura-2 microfluorometry; Nicotine; Muscarine; Mn^{2+} influx (Sorimachi, M. (696) 67)

Ca^{2+} channel blocker
Ciliary ganglion cell; Fura-2 microfluorometry; SBFI microfluorometry; Nicotine; Muscarine (Sorimachi, M. (669) 26)

Ca^{2+}-channel toxin
Synaptic transmission; Transmitter release; Presynaptic Ca^{2+}-channel; Presynaptic block;

Motoneuron terminal; Electrocyte; Electric fish (Sierra, F. (683) 215)

Ca^{2+} current
Exocytosis; Rat chromaffin cell; Membrane capacitance measurement; Ca^{2+} channel antagonist (Kim, S.J. (675) 289)

Ca^{2+} entry blocker
Cyclopiazonic acid; Calmodulin antagonist; Intracellular Ca^{2+} store; NG108-15; Capacitative Ca^{2+} entry (Lo, T.-M. (704) 10)

Ca^{2+}-mediated K^+ current
Guinea pig; Ambiguus neuron; Rectification; Afterhyperpolarization; Ih; Norepinephrine; Signal-to-noise ratio (Nishimura, Y. (702) 213)

$Ca^{2+} + Mg^{2+}$-ATPase
Cholesterol oxidation; $Na^+ + K^+$-ATPase; Cholesterol oxidase; Fluidity; Interdigitation; Synaptic plasma membrane (Wood, W.G. (683) 36)

CA3
Hippocampal slice; Spontaneous epileptiform burst; Mossy fiber stimulation; Phase-locking; Chaos; Strange attractor; One-dimensional strobomap; Spatial coherence (Hayashi, H. (686) 194)

Long-term potentiation; Theta-frequency primed burst; Current source density; APV; Inhibitory interneuron (Roth, L.R. (694) 40)

Cerebral ischemia; Protein kinase II; CA1; Gerbil (Babcock, A.M. (705) 307)

^{45}Ca autoradiography
Direct current; Rat; Brain; Sensorimotor cortex; Dark neuron; Anodal polarization (Islam, N. (684) 206)

CA column
Dopamine; Sexual behavior; Medial preoptic area; Microdialysis; Male rat (Sato, Y. (692) 66)

Ca-dependent potassium current
Insect motoneurone; Voltage-clamp; Muscarinic agonist outward current. (David, J.A. (669) 153)

Cadmium
Dopamine-release; Striatum; *N*-Methyl-D-aspartate; Kainate; Amperometry, in vivo; Superfusion, in vivo; Rat (Olivier, V. (695) 1)

Activity; Behavior; Cocaine; Sensitization; Toxicity (Nation, J.R. (702) 223)

Cadmium chloride
Rat; Astrocyte; Metallothionein; D-Aspartate (Rising, L. (678) 91)

Caffeine
Interleukin-6; Interleukin-1; Differentiation; Fura-2; Glutamate; Depolarization; Brain (Holliday, J. (673) 141)

Dissociated outer hair cell; Guinea-pig cochlea; K^+ current; Whole-cell recording; Intracellular Ca^{2+} store (Yamamoto, T. (677) 89)

Sexual behavior; Prefrontal cortex; Amphetamine; Dopamine; Noradrenaline (Ågmo, A. (696) 187)

C-afferent
Flexion reflex; *N*-methyl-D-aspartate receptor; MK-801; Ketamine; Capsaicin (Anderson, M.F. (678) 140)

Calbindin
Regeneration; Sciatic nerve; Schwann cell; Potassium; Calcium (Edström, A. (693) 148)

Calbindin D-28k
Calcium-binding protein; Calretinin; Optic tectum; Teleost (Arévalo, R. (671) 112)

Corticosterone; Adrenalectomy; Dentate gyrus; Degeneration; CA1; Parvalbumin; Calcium (Krugers, H.J. (696) 89)

Red nucleus; Calcium-binding protein; Parvalbumin; Double-immunohistochemical method; Motor system; Rat (Hontanilla, B. (696) 121)

Calcification
Excitotoxin; *N*-Methyl aspartic acid; Basal forebrain; Cholinergic; Alzheimer's disease; Down's syndrome (Stewart, G.R. (695) 81)

Calcineurin
Cerebral ischemia; Ca^{2+}/calmodulin-dependent protein kinase II; Hippocampus; Synaptic plasticity (Onodera, H. (684) 95)

FK506; Hippocampus; Long-term depression; Long-term potentiation; Miniature EPSP (Hodgkiss, J.P. (705) 241)

Calcitonin gene-related peptide
Trigeminal ganglion; Migraine; Neurogenic inflammation; Vasoactive intestinal peptide; Substance P; Antidromic vasodilatation (Escott, K.J. (669) 93)

Ciliary ganglion; Substance P; Vasoactive intestinal polypeptide; Neuropeptide Y; Tyrosine hydroxylase; Dopamine-β-hydroxylase; Human (Kirch, W. (681) 229)

Dorsal root ganglia neuron; Gene expression; Glucocorticoid; Protein kinase A; Protein kinase C (Supowit, S.C. (686) 77)

Tyrosine hydroxylase; Double immunohistochemistry; Nucleus of the solitary tract; A2-Catecholaminergic cell group (Fodor, M. (690) 141)

CGRP Receptor; Alcohol preference; Central amygdaloid nucleus; Nucleus accumbens (Hwang, B.H. (690) 249)

Nitric oxide; Nitric oxide synthase; Microvessel; Hippocampus; Vasodilation (Fergus, A. (694) 78)

$CGRP_{8-37}$; β-Funaltrexamine; Naltrindole; nor-Binaltorphimine; Naloxone; Opioid receptor; Hindpaw withdrawal latency (Yu, L.-C. (698) 23)

Cerebral blood flow; Cerebral microvessel; $CGRP_{8-37}$; Photoelectric method; Vasodilator (Kobari, M. (698) 95)

Nervous system; Freund's adjuvant; Monoarthritis; Substance P; Neurokinin A; Neuropeptide Y (Bileviciute, I. (704) 71)

Calcium
6-Cyano-7-nitroquinoxaline-2,3-dione; Dizocilpine; Neurosteroid; Nimodipine; *N*-methyl-D-aspartate; Pregnenolone sulfate; Spermine (Fahey, J.M. (669) 183)

Nerve growth factor; Protooncogene; Cyclic AMP; Protein kinase C (Jehan, F. (672) 128)

Sheep; Fetus; Ontogeny; Brain; Glucocorticoid (McDonald, T.J. (675) 303)

Alzheimer's disease; Amylin; β2-Microglobulin; Fura-2; Hippocampus; Prion protein; 2,7-Dichlorofluorescin; Vitamin E (Mattson, M.P. (676) 219)

Cerebellar granule neuron; Apoptosis; Thapsigargin; Cell survival (Levick, V. (676) 325)

S100; Hippocampus; Neurotrophic; Glucose; Mitochondria (Barger, S.W. (677) 167)

HIV-1; gp120; Synaptosome; Glutamate; Dantrolene; Calcium channel blocker (Nath, A. (678) 200)

Serotonin; $Serotonin_2$ receptor; Second messenger; Release; Degeneration (Kramer, H.K. (680) 1)

Olfaction; Hypogonadotropic hypogonadism (Rawson, N.E. (681) 58)

Alzheimer's disease; Inositol(1,4,5)P_3; Inositol(1,3,4,5)P_4; Receptor; Phosphatidylinositol hydrolysis; Signal transduction (Garlind, A. (681) 160)

β-Amyloid; Alzheimer's disease; Neurotoxicity; *N*-Methyl-D-aspartic acid; Nitric oxide (Le, W.-D. (686) 49)

Hippocampus; Synaptic transmission; Potassium; Magnesium; pH; Temperature; Hibernation (Igelmund, P. (689) 9)

Alzheimer's disease; Colchicine; Excitototoxicity; Fura-2; Glutamate; Microtubule; Taxol (Furukawa, K. (689) 141)

Glutamate; AMPA; Kainate; Cell culture; Excitotoxicity; Spinal cord; Neurotoxicity; Ca^{2+} (Yin, H.-z. (689) 265)

Regeneration; Sciatic nerve; Schwann cell; Potassium; Calbindin (Edström, A. (693) 148)

Peripheral nerve; Myelinated axon; Anoxia; Ouabain; Electron probe X-ray microanalysis; Na^+-Ca^{2+} exchanger; Na^+-K^+ ATPase (Lehning, E.J. (694) 158)

Calbindin-D28k; Corticosterone; Adrenalectomy; Dentate gyrus; Degeneration; CA1; Parvalbumin (Krugers, H.J. (696) 89)

μ-Calpain; Proteinase; Proenzyme; Autodigestion; Immunohistochemistry; Neuron; Nucleus (Onizuka, K. (697) 179)

Acetylcholine; Dissociated cell; Fractional efflux; Glutamate; High-performance liquid chromatography; Striatum (Login, I.S. (697) 271)

Neuronal degeneration; Non-NMDA receptor; Neurotoxicity (Akbarian, S. (699) 297)

Astrocyte; Immunocytochemistry; Protein kinase C; Suprachiasmatic nucleus; Vasopressin (Van der Zee, E.A. (701) 99)

Hypothalamic slice; Arginine vasopressin; Corticosterone (Liu, X. (704) 19)

Felbamate; *N*-Methyl-D-aspartate receptor; Strychnine-insensitive glycine antagonist; Excitotoxicity; Neuroprotection; Cortical neuron (Kanthasamy, A.G. (705) 97)

^{45}Calcium
Calcium accumulation; Cannabinoid; Closed head injury; Head trauma; HU-211 (Nadler, V. (685) 1)

Calcium accumulation
^{45}Calcium; Cannabinoid; Closed head injury; Head trauma; HU-211 (Nadler, V. (685) 1)

Calcium-activated protease
Transfection; Antisense oligonucleotide; Excitatory amino acid; Synaptic dysfunction; Excitotoxicity; Neuropathology (Bednarski, E. (694) 147)

Calcium-binding protein
Calbindin D-28k; Calretinin; Optic tectum; Teleost (Arévalo, R. (671) 112)

Calcium buffer; Calretinin; Salt loading; Hypothalamic paraventricular nucleus; Supraoptic nucleus; Rat (Arai, R. (673) 339)

Calcium binding protein
Alzheimer's disease; β-Amyloid; Calretinin; Neurotoxicity; Neuroprotection (Pike, C.J. (671) 293)

Neuropeptide Y; Immunohistochemistry; Retrograde neuronal tracing; Autonomic nervous system; Sympathetic neuron; Chemical coding (Grkovic, I. (684) 127)

Carotid body; CGRP; Glossopharyngeal nerve; Nodose ganglion; Petrosal ganglion; Tyrosine hydroxylase; Vagus nerve (Ichikawa, H. (675) 337)

Glaucoma; Retina; Neurofilament (Vickers, J.C. (680) 23)

Neurocalcin; Inner ear; Rat; Immunohistochemistry (Iino, S. (680) 128)

Calretinin; Double fluorescence labeling; Dual-peroxidase staining; Olfactory system; Mitral cell; Tufted cell (Wouterlood, F.G. (682) 93)

Calretinin; Tract tracing; Retrograde labelling; Immunohistochemistry; Nigro-striatal pathway (Krzywkowski, P. (705) 273)

Calcium-binding protein
Immunocytochemistry; Olfaction (Porteros, A. (689) 93)

γ-Aminobutyric acid; Calretinin; Interneuron; Double bouquet cell; Temporal cortex; Alzheimer's disease (Fonseca, M. (691) 83)

Rat; Basal forebrain; $GABA_A$ receptor α_1 subunit-immunoreactivity; Choline acetyltransferase; Glutamic acid decarboxylase (Härtig, W. (692) 215)

Red nucleus; Calbindin D-28k; Parvalbumin; Double-immunohistochemical method; Motor system; Rat (Hontanilla, B. (696) 121)

Amygdala; *Macaca mulatta*; *Wisteria floribunda* agglutinin; Extracellular matrix; γ-Aminobutyric acid; Double labelling (Härtig, W. (698) 265)

β-Amyloid; Choline acetyltransferase; Cholinotoxicity; Medial septum; Parvalbumin (Harkany, T. (698) 270)

Cortical graft; Neuropeptide; Immunocytochemistry (Bele, S. (704) 210)

Calcium-binding proteins
Basal ganglia; Striatum; Calretinin; Human brain; Immunohistochemistry (Parent, A. (674) 347)

Calcium buffer
Calcium-binding protein; Calretinin; Salt loading; Hypothalamic paraventricular nucleus; Supraoptic nucleus; Rat (Arai, R. (673) 339)

Calcium buffering
Long-term potentiation; Mouse; Dentate granule cell; Protein synthesis; Cycloheximide; Anisomycin (Namgung, U. (689) 85)

Calcium channel
Thiopental; Halothane; Isoflurane; Synaptosome; γ-Aminobutyric acid release; Depolarization (Lecharny, J.-B. (670) 308)

Epibatidine; Nicotinic acetylcholine receptor; Bay K 8644; Analgesia (Bannon, A.W. (678) 244)

Diltiazem; Hypoxia; MK-801; Neuroprotection; Synergy (Schurr, A. (684) 233)

ω-Conopeptide MVIIC; Conopeptide; Brain ischemia; Hypothermia; Excitatory amino acid; Microdialysis; Rabbit (Wu, G. (692) 118)

GT1-7 neuron; Voltage-dependent Ca^{2+} channel; Nimodipine; BayK 8644; Conotoxin; Hypothalamus; GnRH (Javors, M.A. (694) 49)

Brain lesioning; Glial fibrillary acidic protein; Reactive astrocyte; Verapamil hydrochloride (Klepper, S. (695) 245)

Calcium channel blocker
HIV-1; gp120; Calcium; Synaptosome; Glutamate; Dantrolene (Nath, A. (678) 200)

Calcium current
Pentylenetetrazol; Seizure-related gene; 3′ Untranslated region; *Xenopus* oocyte (Kajiwara, K. (671) 170)

Calcium dependent ATPase
Electron microscopic histochemistry; Sciatic nerve; Peripheral nerve; Axon; Schwann cell; Plasma membrane (Mizutani, Y. (693) 95)

Calcium-dependent potassium current
Hippocampus; Pyramidal neuron; Dendrite; Afterhyperpolarization; Carbachol (Andreasen, M. (698) 193)

Calcium release
Ryanodine receptor; Sphingosylphosphorylcholine; Microsome; IP_3 receptor (Dettbarn, C. (669) 79)

Calcium signalling
β-Amyloid; Membrane fluidity; Neurotoxicity (Müller, W.E. (674) 133)

Calibration, in vivo
Exogenous compound; Recovery, in vivo; Medial prefrontal cortex (Pan, W.H.T. (686) 249)

Calmodulin
Myosin light chain kinase; Myosin; Myosin heavy chain; Central nervous system; Bovine; Immunocytochemistry (Shimada, H. (682) 212)

Calmodulin antagonist
Cyclopiazonic acid; Ca^{2+} entry blocker; Intracellular Ca^{2+} store; NG108-15; Capacitative Ca^{2+} entry (Lo, T.-M. (704) 10)

Calpain
Fodrin; MAP 2; Neonatal; Brain damage; Ischemia; Hypoxia (Blomgren, K. (684) 136)

Fodrin; Neonatal; Brain damage; Ischemia; Hypoxia (Blomgren, K. (684) 143)

mCalpain
Localization; Myelin sheath; Rat nervous system; Myelin basic protein; Neurofilament protein; Neuron; Glial cell (Li, Z. (697) 112)

μ-Calpain
Proteinase; Proenzyme; Calcium; Autodigestion; Immunohistochemistry; Neuron; Nucleus (Onizuka, K. (697) 179)

Calphostin C
FITC-albumin; Cerebral venule; Venular pressure; Sphingosine; Vascular permeability; Brain; Rat (Mayhan, W.G. (696) 106)

Calretinin
Calbindin D-28k; Calcium-binding protein; Optic tectum; Teleost (Arévalo, R. (671) 112)

Alzheimer's disease; β-Amyloid; Calcium binding protein; Neurotoxicity; Neuroprotection (Pike, C.J. (671) 293)

Calcium-binding protein; Calcium buffer; Salt loading; Hypothalamic paraventricular nucleus; Supraoptic nucleus; Rat (Arai, R. (673) 339)

Basal ganglia; Striatum; Calcium-binding proteins; Human brain; Immunohistochemistry (Parent, A. (674) 347)

Parvalbumin; Trigeminal ganglion; Tooth pulp; Rat (Ichikawa, H. (679) 205)

Calcium-binding protein; Double fluorescence labeling; Dual-peroxidase staining; Olfactory

system; Mitral cell; Tufted cell (Wouterlood, F.G. (682) 93)

γ-Aminobutyric acid; Interneuron; Double bouquet cell; Temporal cortex; Calcium-binding protein; Alzheimer's disease (Fonseca, M. (691) 83)

Tract tracing; Retrograde labelling; Immunohistochemistry; Calcium binding protein; Nigrostriatal pathway (Krzywkowski, P. (705) 273)

CaM kinase II
Neurofilament; Phosphorylation; Acrylamide; Glycidamide; Cytoskeletal protein (Reagan, K.E. (671) 12)

Cane toad
Optic tectum; Field potential; Pretectotectal inhibition; Neuropeptide Y (Schwippert, W.W. (669) 150)

Cannabinoid
Opioid; Tetrahydrocannabinol; Analgesia; Withdrawal; Perinatal; Behavior (Vela, G. (680) 142)

Calcium accumulation; ^{45}Calcium; Closed head injury; Head trauma; HU-211 (Nadler, V. (685) 1)

Dentate gyrus; Synaptic potential; Paired-pulse facilitation; WIN 55,212-2; Perforant path (Kirby, M.T. (688) 114)

Tolerance; Anandamide; Δ^9-THC; Cannabinoid receptor; G_i protein; G_s protein (Fride, E. (697) 83)

Cannabinoid receptor
Anandamide (arachidonylethanolamide); Δ^9-Tetrahydrocannabinol; Dopamine; Nigrostriatal dopaminergic neuron; Motor activity; Stereotypic behavior (Romero, J. (694) 223)

Tolerance; Anandamide; Δ^9-THC; Cannabinoid; G_i protein; G_s protein (Fride, E. (697) 83)

Cannabis
Marijuana; Circling; Catalepsy; Basal ganglia (Anderson, L.A. (691) 106)

Capacitative Ca^{2+} entry
Cyclopiazonic acid; Ca^{2+} entry blocker; Calmodulin antagonist; Intracellular Ca^{2+} store; NG108-15 (Lo, T.-M. (704) 10)

Capillary
Cytokine; Triangular septal nucleus; Septofimbrial nucleus; Habenular nucleus; Interpeduncular nucleus; Autoradiography; Blood–brain barrier; Choroid plexus (Maness, L.M. (700) 83)

Rat; Spinal cord; Subarachnoid space; Blood–brain barrier; Electron microscope (Fujimoto, K. (702) 284)

Capsaicin
Nociception; Antinociception; Substance P; Naloxone; Opioid; Tail-flick test; Spinal cord; Primary afferent; C-fiber; CP-96,345; CP-96,344; CP-99,994 (Yashpal, K. (674) 97)

Urinary bladder; Spinal cord injury; Micturition; Afferent pathway (Cheng, C.-L. (678) 40)

Flexion reflex; *N*-methyl-D-aspartate receptor; MK-801; Ketamine; C-afferent (Anderson, M.F. (678) 140)

Capsaicin-sensitive neuron
[^{3}H]Resiniferatoxin autoradiography; Vanilloid receptor; Axonal transport; Nodose ganglia; Capsazepine (Szallasi, A. (703) 175)

Capsazepine
[^{3}H]Resiniferatoxin autoradiography; Vanilloid receptor; Capsaicin-sensitive neuron; Axonal transport; Nodose ganglia (Szallasi, A. (703) 175)

Captopril
Angiotensin II; Losartan; Paraventricular hypothalamus; Supraoptic nucleus; Lamina terminalis; Kininase II inhibitor; Enalapril; Bradykinin antagonist (Hoe 140) (Rowland, N.E. (669) 73)

Carbachol
Acetylcholine; Rostral ventrolateral medulla; Physostigmine; Pressor response; Acetylcholine release (Kubo, T. (686) 1)

Acetylcholine; AF-DX 116; Brain slice; Estrogen; 4-DAMP; M3; McN-A-343; Muscarinic receptor subtype; Oxotremorine-M; *p*-F-HHSiD; Pirenzepine; Single-unit activity (Kow, L.-M. (694) 29)

Hippocampus; Pyramidal neuron; Dendrite; Afterhyperpolarization; Calcium-dependent potassium current (Andreasen, M. (698) 193)

Carbamazepine
Apoptosis; DNA fragmentation; Cerebellar granule cell; *N*-Methyl-D-aspartate; Aurintricarboxylic acid; Cycloheximide (Gao, X.-M. (703) 63)

Carbohydrate
Cell sorting; Cholera toxin B subunit; Flow cytometry; Stem cell (Flaris, N.A. (678) 99)

Carboline
N-Methyl-4-phenylpyridinium ion; Neurodegeneration; Parkinson's disease; Dopamine; Substantia nigra; Rat (Neafsey, E.J. (675) 279)

Carbon dioxide
Hyperoxia; Hyperbaric oxygen; Adenosine receptor; Methylxanthine; Seizure (Bitterman, N. (696) 250)

Carbonic anhydrase
Mutant mouse; Acidosis; *N*-Methyl-D-aspartate receptor; Long-term potentiation (Velíšek, L. (671) 245)

Sensory neuron; Peripheral target interaction; Botulinum toxin; Vinblastine (Mayeux, V. (694) 191)

Carbonic anhydrase II
Oligodendroglia; Astroglia; CO_2; Brain (Agnati, L.F. (676) 10)

Carbon monoxide
Brain biliverdin reductase; Heme degradation; Antioxidant; Bilirubin (Ewing, J.F. (672) 29)

Carotid body; Chemoreceptor excitation; Cytochrome a_3^{2+}; O_2 consumption; PO_2 microelectrode (Lahiri, S. (684) 194)

Hemoxygenase; Metabotropic glutamate receptor; Formalin test; Zinc protoporphyrin-IX (Yamamoto, T. (704) 256)

Carboxylesterase
Oligodendrocyte; Cingulate cortex; Hypothalmus; Spinal trigeminal nucleus (Yamada, T. (674) 175)

Cardiac adenylyl cyclase
Adrenergic receptor; Heart; β-Adrenoceptor signaling; Heterologous sensitization/desensitization of adenylyl cyclase; Isoproterenol; Development (Giannuzzi, C.E. (694) 271)

Cardiac arrest
Apolipoprotein E; Apolipoprotein J; Global cerebral ischemia; Rat; Alzheimer's disease (Kida, E. (674) 341)

Ischemia; Neuroprotection; Thalamic reticular nucleus; α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionate antagonist (Ross, D.T. (683) 117)

Cerebral ischemia; Brain pH; Brain lactate; Reperfusion; Brain temperature; Neutral red (LaManna, J.C. (687) 175)

Seizure; Remission; Relapse; Ischemia; Valproate (Iyer, V.G. (689) 159)

Ischemia; Cerebellar degeneration; Neuroprotection; AMPA antagonist (Brasko, J. (699) 133)

Cardiac ganglion
Acetylcholine receptor; Parasympathetic neuron; α-Bungarotoxin; Neuronal bungarotoxin (Sargent, P.B. (680) 99)

Cardiovascular
Catecholamine; Serotonin; Immunohistochemistry; Tyrosine hydroxylase (Allen, G.V. (680) 117)

Brain mapping; Brainstem; Central activation; Forebrain; Migraine (Tassorelli, C. (682) 167)

Trigeminal; Diving reflex; Respiration; Glutamate; Kynurenate; Lidocaine; Nasal; Medullary dorsal horn; Diving response; Muskrat (Panneton, W.M. (691) 37)

Baroreceptor; Blood pressure; Ultrastructure; Tract tracing (Aicher, S.A. (693) 51)

Cardiovascular control
Orthostatic hypotension; Motion sickness; Vomiting; Sympathetic nervous system; Blood pressure (Yates, B.J. (689) 197)

Pre-sympathetic neuron; Bötzinger neuron; C1 catecholaminergic neuron; Electrophysiology; Extracellular recording; Respiratory control (Kanjhan, R. (699) 19)

Cardiovascular regulation
Hypertonicity; Osmoregulation; Nucleus of the solitary tract; Ventrolateral medulla; Parabrachial nucleus; Catecholamine; A1 nora-

drenergic cell group; C1 adrenergic cell group (Hochstenbach, S.L. (674) 46)

Autonomic nervous system; Corticotrophin releasing factor; Enkephalin; Heart; Lateral hypothalamic area; Medulla oblongata; Neuropeptide Y; Oxytocin; Paraventricular hypothalamic nucleus; Pseudorabies virus; Raphe nuclei; Serotonin; Somatostatin; Stellate ganglion; Sympathetic nervous system (Jansen, A.S.P. (683) 1)

Central nucleus of the amygdala; A1 noradrenergic cell group; Limbic system (Roder, S. (705) 71)

Carnosine
Glycogen; Glucose; Olfactory bulb; Brain development; Noradrenaline; Norepinephrine (Coopersmith, R. (674) 230)

Carotid body
Calcium-binding protein; CGRP; Glossopharyngeal nerve; Nodose ganglion; Petrosal ganglion; Tyrosine hydroxylase; Vagus nerve (Ichikawa, H. (675) 337)

Glomus cell; Intracellular potassium; Hypoxia (Zhang, X.-Q. (676) 413)

Carbon monoxide; Chemoreceptor excitation; Cytochrome a_3^{2+}; O_2 consumption; PO_2 microelectrode (Lahiri, S. (684) 194)

Carotid sinus nerve
Baroreceptor; Chemoreceptor; Histochemistry; Immunocytochemistry; Synapse; Transganglionic transport; Ultrastructure (Gatti, P.J. (693) 133)

Carrageenan inflammation
Indomethacin; Krox-24 expression; Nociception; Spinal cord (Buritova, J. (674) 211)

Castration
Testosterone; Steroid receptor; Steroid abuse; Athlete; Hypothalamus; Immunocytochemistry; Optical density; Opioid peptide (Menard, C.S. (669) 255)

Androgen; CA1; Hippocampus; MK801; *N*-Methyl-D-aspartate; Testosterone; Autoradiography (Kus, L. (683) 270)

Cat
Stimulus-induced oscillation; Visual cortex; Spatial convergence; Oscillatory field (Bauer, R. (669) 291)

Suprageniculate nucleus; Superior colliculus; Bilateral projection; WGA–HRP; Fluorescent tracer; Double-labeled neuron; Light and electron microscopy; Extrageniculate visual system (Katoh, Y.Y. (669) 298)

Sleep–waking cycle; Acetylcholine; Microdialysis; Electroencephalogram; Hippocampus; Theta wave (Marrosu, F. (671) 329)

Basal forebrain; Enkephalin; Substance P; Cholinergic system; Immunocytochemistry (Rieck, R.W. (672) 237)

Succinate dehydrogenase activity; Soma size; Dorsal root ganglion neuron; Ventral horn neuron (Ishihara, A. (676) 212)

c-Fos protein; Immunohistochemistry; Sneeze; Trigeminal nerve; Respiratory reflex (Wallois, F. (687) 143)

Optical Imaging; State; EEG; RSA; Cell swelling; Theta (Rector, D.M. (696) 151)

Active sleep; Muscle atonia; Microiontophoresis; Ponto-geniculo-occipital; α-Chloralose (López-Rodríguez, F. (699) 201)

Medulla; Lateral tegmental field; Sympathoinhibition; α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; Kynurenic acid; Baroreflex (Dempesy, C.W. (704) 141)

Catalepsy
Marijuana; Cannabis; Circling; Basal ganglia (Anderson, L.A. (691) 106)

Cat brainstem
Coupled oscillator; Ordinary coherence; Partial coherence; Sympathetic nerve discharge; Urethane anesthesia (Zhong, S. (670) 329)

Catecholamine
Rat; Diet; Protein; Brain; Hypothalamus; Retina; Tyrosine; Dopamine; Appetite (Fernstrom, M.H. (672) 97)

Fast Blue; Tyrosine hydroxylase; Stria terminalis; Limbic system; Nucleus tractus solitarius (Terenzi, M.G. (672) 289)

Hypertonicity; Osmoregulation; Nucleus of the solitary tract; Ventrolateral medulla; Parabrachial nucleus; Cardiovascular regulation; A1 noradrenergic cell group; C1 adrenergic cell group (Hochstenbach, S.L. (674) 46)

Head trauma; 3-Methoxy-4-hydroxyphenylglycol; MHPG; Contusion; Sensorimotor cortex; Somatosensory cortex (Levin, B.E. (674) 307)

Serotonin; Immunohistochemistry; Tyrosine hydroxylase; Cardiovascular (Allen, G.V. (680) 117)

Mesolimbic; Striatum; Ultrastructure; Immunocytochemistry (Van Bockstaele, E.J. (682) 215)

Human medulla; Cerebral blood vessel; Nitric oxide; Ventrolateral medulla (Benarroch, E.E. (684) 215)

Cathecholamine
Morphine sulfate; Morphine-3-glucuronide; Morphine-6-glucuronide; Glucose; Hormone; Rat; i.c.v. (Hashiguchi, Y. (694) 13)

Cation channel
Muscarinic receptor; Phosphorylation; Dephosphorylation; Deactivation; AlF complex; G protein; Chromaffin cell (Inoue, M. (687) 199)

Cationic and anionic channel current
Microglia; Patch-clamp (McLarnon, J.G. (693) 8)

Cationic current
Neurotensin; Substantia nigra; Dopaminergic neuron; Whole-cell recording; Inwardly rectifying potassium current; G-protein; Inositol 1,4,5-trisphosphate (Wu, T. (683) 242)

Cationic ferritin
Aminoglycoside; Hair cell; Endocytosis; Immuno-gold; Toxicity; Chicken (Hashino, E. (704) 135)

Cation-induced response
Taste response; Salt; Glossopharyngeal nerve; Receptor for cation; Anion modulation; Lyotropic series; Frog (Kitada, Y. (694) 253)

Caudal auditory telencephalon
Songbird; Auditory learning; Attention; Habituation; 2-Deoxyglucose (Scharmann, M.G. (682) 83)

Caudal trigeminal nucleus
Single cell recording; Descending inhibition; Thermal nociception; Microiontophoresis; Monoamine; α-Adrenoreceptor; Medullary dorsal horn (Cahusac, P.M.B. (700) 70)

Caudal ventrolateral medulla
Angiotensin II; Angiotensin II antagonist; Baroreflex control; Blood pressure; Renal sympathetic nerve activity (Sesoko, S. (671) 38)

Caudate nucleus
Basal ganglia; Putamen; Globus pallidus; Primate; Single neuron; Motor control; Movement; Movement direction; Precue; Ipsilateral (Jaeger, D. (694) 111)

Estrogen; Antiestrogen; Nigrostriatal; Uterus (McDermott, J.L. (698) 248)

Caudate–putamen
[^{3}H]Serotonin uptake autoradiography; Serotonin axon terminal; Dopamine denervation; Nigrostriatal lesion (Mrini, A. (669) 303)

Hippocampal formation; Nucleus accumbens; AMPA; $GABA_A$; $GABA_B$ (Finch, D.M. (670) 233)

Caudate-putamen
Globus pallidus; Sensorimotor integration; Auditory; Somatosensory; Electrophysiology; Rat; Multisensory response properties (Chudler, E.H. (674) 33)

Picrotoxin; Convulsion; Fos; Immunohistochemistry; Cortex; Thalamus; Hippocampus; Rat (Willoughby, J.O. (683) 73)

[^{14}C]Deoxyglucose; Striatum; Motor cortex; Forelimb; Hindlimb (Brown, L.L. (686) 207)

Dynorphin; Enkephalin; Morphine; Naltrexone; Striatum; Nucleus accumbens-olfactory tubercle; Tolerance; Dependence (Trujillo, K.A. (698) 69)

Aging; Olfactory tubercle; Oxytocin receptor; Rat brain; Testosterone; Ventromedial hypothalamic nucleus (Arsenijevic, Y. (698) 275)

Haloperidol; Microdialysis; Cortex; Dopamine; Neurotensin (See, R.E. (704) 202)

$^{45}Ca^{2+}$ uptake
Opiate; Intracellular calcium; Fura-2; Neuronal cell line (Fields, A. (687) 94)

Cavalieri
Middle cerebral artery; Cerebral infarction; Volume estimation (Avendaño, C. (673) 83)

C6BU-1 glioma
Interleukin-1β; Serotonin; Intracellular calcium; Tyrosine kinase; Protein kinase C (Kugaya, A. (682) 151)

CCK/D_2 receptor interaction
Fos-protein; Additive and synergistic action; Rat nucleus accumbens (Li, X.-M. (684) 225)

CCK receptor
Dopamine; Microdialysis (Hamilton, M.E. (688) 134)

CD11b antibody
Adhesion molecule; CD18 antibody; MCA occlusion; Rat (Zhang, Z.G. (698) 79)

CD18 antibody
Adhesion molecule; CD11b antibody; MCA occlusion; Rat (Zhang, Z.G. (698) 79)

CD59 complement inhibitor
Neurodegeneration; Cell death and membrane attack complex (Shen, Y. (671) 282)

CD95
Astrocyte; Apoptosis; APO-1 (Nishimura, T. (695) 137)

[^{14}C]2-Deoxyglucose
Autoradiography; Incubation; Ring dove; Nucleus preopticus medialis; Nucleus tuberis; Nucleus ovoidalis; Paleostriatum primitivum (Georgiou, G.C. (700) 137)

[^{14}C]2-Deoxyglucose autoradiography
Maternal behavior; Parturition; Sensitization; Vomeronasal system; Medial preoptic area (Del Cerro, M.C.R. (696) 213)

Cell body
Dopamine; Dopamine exocytosis; Vesicle; Vesicle content; Vesicle size; Multiple classes of vesicle; Distribution; *Planorbis corneus* (Chen, G. (701) 167)

Cell culture
$AVP_{(4-9)}$; $AVP_{(4-8)}$; Fragment peptide; Receptor autoradiography; Intracellular Ca^{2+}; Immunocytochemistry; Fura-2 (Jurzak, M. (673) 349)

Astrocyte; Astroglia; Neuron; Immunocytochemistry; Gluconeogenesis (Schmoll, D. (677) 341)

β-Endorphin; Hypothalamus; Cyclic AMP; Progesterone; Estrogen (Yang, Z. (678) 251)

Glutathione; Antioxidant enzyme; Mitochondria; Astrocyte; Granule cell (Huang, J. (680) 16)

Cerebral cortex; Excitotoxicity; Free radical; Glutamate; Head trauma; Lipid peroxidation (Regan, R.F. (682) 144)

Circadian rhythm; Suprachiasmatic nucleus; Pacemaker; Protein synthesis; Anisomycin; Antisense; Vasopressin (Watanabe, K. (684) 179)

Phenytoin; MAP2; Cytoskeleton; Mouse brain; Cerebellum (Kempermann, G. (687) 194)

Glutamate; AMPA; Kainate; Excitotoxicity; Spinal cord; Neurotoxicity; Ca^{2+}; Calcium (Yin, H.-z. (689) 265)

Excitotoxicity; Glutamate; *N*-Methyl-D-aspartate; Indo-1; Confocal microscopy (Limbrick Jr., D.D. (690) 145)

β-Endorphin; Hypothalamus; Cyclic AMP; Glutamate; *N*-Methyl-D-aspartate (Yang, Z. (692) 129)

Hypothermia; Injury; Microtubule; Varicosity; Transport (Emery, D.G. (692) 161)

Circadian rhythm; Melatonin; Pineal gland (Murakami, N. (693) 1)

Liposome endocytosis; Neuronal network; Multielectrode array (Azzazy, H.M.E. (695) 231)

Cell death
Auditory system; Nucleus magnocellularis; Y10B antibody; Protein synthesis; Afferent deprivation; Brain slice (Hyson, R.L. (672) 196)

Apoptosis; Development; Olfactory bulb; Olfaction; Plasticity; Sensory deprivation (Najbauer, J. (674) 245)

Apoptosis; Hypoxia-ischemia; Internucleosomal cleavage; Neonatal; DNA damage (Hill, I.E. (676) 398)

Hippocampus; Dentate gyrus; Adrenalectomy; Apoptosis; Dexamethasone (Sloviter, R.S. (682) 227)

Sexually dimorphic area pars compacta; Postnatal sexual differentiation; Migration; Stereology; Gerbil (Holman, S.D. (694) 167)

Bcl-2; Oncogene; Alzheimer's disease; Human brain; Apoptosis; Immunohistochemistry; Neurofibrillary tangle; PHF-1; AT8 (Satou, T. (697) 35)

Axotomy; Sciatic nerve; Spinal motoneuron; Neurotrophin (Schmalbruch, H. (700) 254)

Cell death and membrane attack complex
Neurodegeneration; CD59 complement inhibitor (Shen, Y. (671) 282)

Cell line
T antigen; Septum; Mouse trisomy 16; Down syndrome; Alzheimer's disease; Nerve growth factor (Kim, J.-H. (671) 299)

Cell membrane
Adducin; Cerebellum; Cytoskeleton; Glia; Hippocampus; Monoclonal antibody; Synapse (Seidel, B. (700) 13)

Cell proliferation
Rhythm; Retina; Teleost; Circadian (Chiu, J.F. (673) 119)

Cell proliferation assay
Müller glia; Pigment epithelium; Retinal development; Proliferative vitreoretinopathy; Rat (Jaynes, C.D. (678) 55)

Cell recognition
Mollusc; Clione limacina; Pleural ganglia; Neuron culture (Panchin, Y.V. (669) 315)

Cell renewal
Opioid receptor; Eye; Enkephalin; Growth; Zeta (ζ) receptor; Evolution; Neuropeptide; Immunocytochemistry (Zagon, I.S. (671) 105)

Cell sorting
Carbohydrate; Cholera toxin B subunit; Flow cytometry; Stem cell (Flaris, N.A. (678) 99)

Cell survival
Cerebellar granule neuron; Apoptosis; Thapsigargin; Calcium (Levick, V. (676) 325)

Cell swelling
Taurine; Potassium; Ouabain (Olson, J.E. (682) 197)

Intrinsic optical properties; Imaging; Spectrophotometry; Brain slice; Rat (Kreisman, N.R. (693) 179)

Osmotic effect; Extracellular space; Hyponatremia; Spreading depression; Seizure; Epilepsy; Neuron damage (Huang, R. (695) 195)

Synaptic potential; Osmotic pressure; Sodium deficiency; Excitatory postsynaptic potential; Spreading depression; Seizure (Chebabo, S.R. (695) 203)

Optical Imaging; State; EEG; RSA; Theta; Cat (Rector, D.M. (696) 151)

Cellular process
Cyclic adenosine 3′,5′-monophosphate; Proliferation; Differentiation; Galactocerebroside (Yamada, H. (681) 97)

Cell volume
Ion channel; Osmotic effect; Glutamate; γ-Aminobutyric acid; Whole-cell patch-clamp; Dissociated neuron (Vreugdenhil, M. (670) 89)

Osmotic effect; Interstitial space; Tissue resistance; Hypertonia; Spreading depression; Synaptic transmission; Water deprivation (Huang, R. (702) 181)

Central activation
Brain mapping; Brainstem; Cardiovascular; Forebrain; Migraine (Tassorelli, C. (682) 167)

Central adrenergic neuron
A-current; Anomalous rectifier; Autonomic nervous system; Brainstem slice; DiI retrograde transport; Medulla oblongata; Pacemaker neurons; Persistent sodium current; Medulla oblongata; Sympathetic nervous system; Vasomotor control (Kangrga, I.M. (670) 215)

Central amygdala
Anxiety; Benzodiazepine; Basolateral amygdala; Midazolam; Ro 15-1788 (Pesold, C. (671) 213)

Central amygdaloid nucleus
Calcitonin gene-related peptide; CGRP Receptor; Alcohol preference; Nucleus accumbens (Hwang, B.H. (690) 249)

Central cardiovascular control
Tachykinin; Substance P; SP-Fragment; Behavior; Tachykinin receptor; Central nervous system (Tschöpe, C. (690) 15)

Central hypersensitivity
N-Methyl-D-aspartate receptor; AMPA receptor; Spinal cord; Nociception; Rat (Chapman, V. (703) 45)

Central lateral nucleus
Thalamostriatal fiber; CM/Pf complex; Posterior thalamic group; Striatal matrix; Ethmoid nucleus (Deschênes, M. (701) 288)

Central nervous system
Spinal cord injury; Methylprednisolone; Lesion site; Secondary injury; Inflammatory reaction; Macrophage invation (Bartholdi, D. (672) 177)

Apolipoprotein A-IV; Gastric ulceration; 2-Deoxy-D-glucose; Indomethacin (Okumura, T. (673) 153)

[^{3}H]WAY-100635; 5-HT$_{1A}$ antagonist; Quantitative autoradiography; Rat; [^{3}H]8-OH-DPAT (Khawaja, X. (673) 217)

2-Deoxy-D-glucose; Gastric emptying; Thyrotropin-releasing hormone (TRH); Vagotomy; Pancreatic polypeptide (Okumura, T. (674) 137)

Endothelin-1; BQ-123, Cyclo (-D-Trp-D-Asp-Pro-D-Val-Leu-); Regional vascular resistance; IRL 1620, N-Suc-(Glu^9,Ala^{11,15})ET-1(8-21); Regional blood flow; Systemic hemodynamics; Sprague–Dawley rat (Rebello, S. (676) 141)

Myosin light chain kinase; Myosin; Myosin heavy chain; Calmodulin; Bovine; Immunocytochemistry (Shimada, H. (682) 212)

Cerebral glucose; Peripheral hyperinsulinemia; Sympathetic regulation (Doyle, P. (684) 47)

Tachykinin; Substance P; SP-Fragment; Central cardiovascular control; Behavior; Tachykinin receptor (Tschöpe, C. (690) 15)

Interleukin-6; Hyperalgesia; α-Melanocyte-stimulating hormone; Prostaglandin; Pain (Oka, T. (692) 123)

Cyclic ADP-ribose; Second messenger system; Immunohistochemistry; Western blotting; Neuron (Mizuguchi, M. (697) 235)

Neuropeptide FF; Antiopioid; Opiate; Hyperalgesia; Pain facilitatory system (Devillers, J.-P. (700) 173)

FGF-2; FGFR1; Rat brain; Anatomy; Immunohistochemistry; Hybridization, in situ (Gonzalez, A.M. (701) 201)

Kallikrein-kinin system; Kallikrein; Kinin antagonist; Blood pressure; Rat brain; Brainstem (Privitera, P.J. (704) 103)

Lesion; Postcommissural fornix; Chondroitin/dermatan sulfate proteoglycan; Regeneration (Stichel, C.C. (704) 263)

Central nervous system locus
Antinociception; RNA; Solution hybridization; δ-Opioid receptor (Jenab, S. (691) 69)

Central nervous system neuron
Ethanol; Fura-2; Glutamate receptor; Neuronal development; Intracellular calcium; Granule neuron (Gruol, D.L. (673) 1)

Central nucleus of the amygdala
A1 noradrenergic cell group; Limbic system; Cardiovascular regulation (Roder, S. (705) 71)

Central / peripheral nervous system
Neuropeptide; Neuron; Sensory cell; Epineurium; Eye; Statocyst; Mollusc; Snail; Immunocytochemistry; Hibernation (Kaufmann, W. (695) 125)

Cerebellar degeneration
Cardiac arrest; Ischemia; Neuroprotection; AMPA antagonist (Brasko, J. (699) 133)

Cerebellar granule cell
Carbamazepine; Apoptosis; DNA fragmentation; *N*-Methyl-D-aspartate; Aurintricarboxylic acid; Cycloheximide (Gao, X.-M. (703) 63)

Cerebellar granule neuron
Apoptosis; Thapsigargin; Cell survival; Calcium (Levick, V. (676) 325)

Cerebellar hemispherectomy
Cortical field potential; Vocalization; Monkey; Broca's area; Cingulate cortex (Gemba, H. (697) 143)

Cerebellar nucleus
Inferior olive; Red nucleus; Cholera toxin β-subunit; Gold-lectin tracer; Axon collateral (Teune, T.M. (673) 313)

Enkephalin; Cervical cord; Cerebellospinal projection; Rat; Immunohistochemistry; Double labelling (Ikeda, M. (690) 225)

Cerebellum; Dystonia; Kainic acid; Stereotactic (LeDoux, M.S. (697) 91)

Cerebellectomy
Vestibular stimulation; Neuronal activity; γ-Aminobutyric acid; Cerebellum; Morphometry; Ataxia; Compensation (Grüsser-Cornehls, U. (703) 51)

Cerebellin
Corticotropin-releasing hormone; Olivopontocerebellar atrophy; Shy-Drager syndrome; Neuropeptide; Cerebellum; Multiple system atrophy; Radioimmunoassay (Mizuno, Y. (686) 115)

Cerebellospinal projection
Enkephalin; Cerebellar nucleus; Cervical cord; Rat; Immunohistochemistry; Double labelling (Ikeda, M. (690) 225)

Cerebellum
NADPH diaphorase; Nitric oxide; Synaptophysin; SNAP-25; Modular organization; Monkey (Yan, X.X. (669) 285)

Epidermal growth factor; Transforming growth factor-α; Nervous system; Development; Subventricular zone; Hybridization, in situ (Seroogy, K.B. (670) 157)

Adenosine; Adenosine receptor; Hippocampus; Cerebral cortex; Striatum; Brain; Immunohistochemistry (Rivkees, S.A. (677) 193)

Alzheimer's disease; Amyloid β protein; Diffuse plaque; Amyloid angiopathy; Enzyme-linked immunosorbent assay; Immunocytochemistry (Tamaoka, A. (679) 151)

D-Serine; Post-mortem human central nervous system; Prefrontal cortex; Superior parietal cortex; Spinal cord; Dementia of the Alzheimer type; Schizophrenia (Kumashiro, S. (681) 117)

Aging; Motor learning; Norepinephrine; Rat; β-Adrenergic receptor (Gould, T.J. (684) 150)

Cerebellin; Corticotropin-releasing hormone; Olivopontocerebellar atrophy; Shy-Drager syndrome; Neuropeptide; Multiple system atrophy; Radioimmunoassay (Mizuno, Y. (686) 115)

Astrocyte; Microglia; Hippocampus; Cyclic GMP; Nitric oxide; Noradrenaline; Glutamate (Agulló, L. (686) 160)

Phenytoin; MAP2; Cytoskeleton; Mouse brain; Cell culture (Kempermann, G. (687) 194)

Purkinje neuron; Ethanol; Alcohol; ACPD; Quisqualate; Glutamate; Culture (Netzeband, J.G. (688) 105)

Volkensin; Ricin; Inferior olive; Pontine nuclei; Retrograde transport; Neuronal degeneration (Cevolani, D. (689) 163)

HB-GAM; Heparin-binding; Migration; Adhesion; Differentiation (Wewetzer, K. (693) 31)

Magnetic stimulation; Motor cortical excitability; Corticospinal neuron; Dentato-thalamocortical pathway; Dentate nucleus; Superior cerebellar peduncle (Saito, Y. (694) 200)

Brainstem; Immunocytochemistry; S-100β; Trypsinization (Yang, Q. (696) 49)

Cerebellar nucleus; Dystonia; Kainic acid; Stereotactic (LeDoux, M.S. (697) 91)

Adducin; Cell membrane; Cytoskeleton; Glia; Hippocampus; Monoclonal antibody; Synapse (Seidel, B. (700) 13)

Ganglioside; Immunohistochemistry; Monoclonal antibody; Rat brain; Development (Kotani, M. (700) 40)

Microtubule protein; Hippocampus; Cerebral cortex (Alcantara, A.A. (701) 47)

Exploration; Spatial orientation; Anxiety; Inhibition (Monnier, C. (702) 169)

Vestibular stimulation; Neuronal activity; γ-Aminobutyric acid; Morphometry; Cerebellectomy; Ataxia; Compensation (Grüsser-Cornehls, U. (703) 51)

Ro 15-4513; GABA$_A$ receptor; Benzodiazepine; Hippocampus; Medulla; Spinal cord (Mehta, A.K. (704) 289)

Cerebral amyloid angiopathy
Dog; Aging; Morphometry; Ultrastructure; Smooth muscle cell (Wegiel, J. (705) 225)

Cerebral area
Dorsal rhizotomy; Immunoreactive dynorphin; Spinal cord; Deafferentation pain; Deafferenta-

tion syndrome; Neuroplasticity; Rat (Candeletti, S. (670) 289)

Cerebral blood flow
Cyclic GMP; Cerebral oxygen consumption; Nitrate; Guanylate cyclase; Rat (Lu, X. (669) 35)

Arginine; Autoregulation; Hypertension; Nitric oxide; Nitric oxide synthase; Rat (Talman, W.T. (672) 48)

N^G-Nitro-L-arginine methyl ester; Nitroarginine; Local cerebral blood flow; [^{14}C]Iodoantipyrine; Brain; Autoregulation (Takahashi, S. (678) 21)

Substantia innominata; Basalis nucleus of Meynert; Zona incerta; Autoradiography; Electrical stimulation; Alzheimer's disease (Vaucher, E. (691) 57)

Transient focal ischemia; Penumbra; Middle cerebral artery occlusion; Autoradiography; Rat (Takagi, K. (691) 160)

Calcitonin gene-related peptide; Cerebral microvessel; $CGRP_{8-37}$; Photoelectric method; Vasodilator (Kobari, M. (698) 95)

L-Arginine; Cortical ischemia; Brain metabolite; Infarct volume (He, Z. (699) 208)

Hyperglycemia; Mannitol; Laser-Doppler flowmetry; Indomethacin; Nitro-L-arginine methyl ester; Spreading cortical depression; Rat (Duckrow, R.B. (703) 145)

Cerebral blood vessel
Human medulla; Catecholamine; Nitric oxide; Ventrolateral medulla (Benarroch, E.E. (684) 215)

Cerebral cell volume regulation
Development; Hypernatremia; Organic osmolyte; Taurine (Trachtman, H. (693) 155)

Cerebral circulation
Cyclic GMP; Newborn (Devine, J.O. (675) 257)

Newborn (Armstead, W.M. (689) 183)

Cerebral metabolism; Glutamate; Glutathione; Microdialysis; High performance liquid chromatography (Yang, C.-S. (698) 237)

Cerebral cortex
α_1-Adrenergic receptor; α_{1A} and α_{1B} subtype; Noradrenaline; Autoradiography; Seizure; Kindling; Epilepsy (Gundlach, A.L. (672) 214)

Heat shock cognate protein 70; Heat shock protein; Restraint-water immersion stress; Stomach; Rat; mRNA; Northern blotting (Fukudo, S. (675) 98)

Adenosine; Adenosine receptor; Hippocampus; Cerebellum; Striatum; Brain; Immunohistochemistry (Rivkees, S.A. (677) 193)

Association cortex; Development; Morphometry; Basal dendrite; Dendritic arborization; Golgi–Cox; Infant (Koenderink, M.J.Th. (678) 233)

Cell culture; Excitotoxicity; Free radical; Glutamate; Head trauma; Lipid peroxidation (Regan, R.F. (682) 144)

Wake–sleep cycle; Cyclic AMP; Anteroventro-medial hypothalamus; Pineal gland; Interscapular brown adipose tissue; Low ambient temperature (Perez, E. (684) 56)

Adrenergic receptor; Norepinephrine; Isoproterenol; Adenosine; Astrocyte; Cyclic AMP transport; Cyclic AMP; Phosphodiesterase; Astrocyte; Secretion; Transport (Rosenberg, P.A. (692) 227)

Spreading depression; Ketamine; AP5; *N*-Methyl-D-aspartate receptor; MK-801 (Rashidy-Pour, A. (693) 64)

Immature rat; Glycogen phosphorylase activity; Cyclic AMP; Homocysteine-induced seizure (Folbergrová, J. (694) 128)

N-Methyl-D-aspartate; γ-Aminobutyric acid; Glutamate; Development; Rat; Evoked potential; Voltage clamp (Metherate, R. (699) 221)

Microtubule protein; Hippocampus; Cerebellum (Alcantara, A.A. (701) 47)

GABA-withdrawal syndrome; Baclofen; Electroencephalogram; Spike-and-wave; Epilepsy (Brailowsky, S. (702) 126)

NO-generating drug; (Na^+,K^+)-ATPase; Porcine; NO; Oxidative NO derivative (Sato, T. (704) 117)

Methylmercury; Neurotoxicity; Postnatal development; Hippocampus; Rat (Wakabayashi, K. (705) 267)

Cerebral endothelium
Blood–brain barrier; Histamine; Bradykinin; Serotonin; Vascular permeability (Butt, A.M. (696) 145)

Cerebral glucose
Peripheral hyperinsulinemia; Central nervous system; Sympathetic regulation (Doyle, P. (684) 47)

Cerebral glucose utilization
Olfactory bulb; Kainic acid; Seizure; Propagation; Electroencephalogram (Araki, T. (693) 207)

Cerebral infarction
Middle cerebral artery; Volume estimation; Cavalieri (Avendaño, C. (673) 83)

Selective neuronal necrosis; Threshold; Transition; Repeated ischemia; Gerbil (Hanyu, S. (686) 44)

Cerebral ischaemia
Hippocampus; Synapse density; Chick; Disector (Horner, C.H. (703) 245)

Cerebral ischemia
Middle cerebral artery; Muscarinic agonist; Acetylcholine; Behavior; Rat (Yamaguchi, T. (669) 107)

Delayed neuronal death; DNA fragmentation; Apoptosis; Gerbil; Hippocampus (Iwai, T. (671) 305)

Hyperglycemia; Magnetic resonance imaging; Reperfusion injury; Nitric oxide (Quast, M.J. (677) 204)

Focal ischemia; Heat shock protein; HSP27; HSP70; Immunohistochemistry; Rat (Kato, H. (679) 1)

Ca^{2+}/calmodulin-dependent protein kinase II; Calcineurin; Hippocampus; Synaptic plasticity (Onodera, H. (684) 95)

Brain pH; Brain lactate; Reperfusion; Cardiac arrest; Brain temperature; Neutral red (LaManna, J.C. (687) 175)

Hippocampus; Microdialysis; Platelet activating factor; Thromboxane A_2 (Pettigrew, L.C. (691) 243)

Ischemic tolerance; Microglia; Macrophage; Immunohistochemistry; Hippocampus; Rat (Kato, H. (694) 85)

Magnetic resonance imaging (MRI); Fibroblast growth factor, basic (bFGF) (Roberts, T.P.L. (699) 51)

Gerbil; Adenosine antagonist; CP 66,713; Chlorostyrylxanthine; CGS 15943; DPCPX; Stroke (Phillis, J.W. (705) 79)

Protein kinase II; CA1; CA3; Gerbil (Babcock, A.M. (705) 307)

Cerebral ischemia / reperfusion
Nitro-L-arginine; Endothelin-1; Cerebrospinal fluid (Spatz, M. (684) 99)

Cerebral metabolism
Cerebral circulation; Glutamate; Glutathione; Microdialysis; High performance liquid chromatography (Yang, C.-S. (698) 237)

Cerebral microvessel
Calcitonin gene-related peptide; Cerebral blood flow; $CGRP_{8-37}$; Photoelectric method; Vasodilator (Kobari, M. (698) 95)

Alzheimer's disease; Basement membrane; Blood–brain barrier; Collagen IV; Hydroxyproline (Kalaria, R.N. (705) 349)

Cerebral oxygen consumption
Cyclic GMP; Cerebral blood flow; Nitrate; Guanylate cyclase; Rat (Lu, X. (669) 35)

Cerebral pO_2
EPR oximetry; Lithium phthalocyanine; Anesthesia; Ischemia (Liu, K.J. (685) 91)

Cerebral venule
FITC-albumin; Venular pressure; Calphostin C; Sphingosine; Vascular permeability; Brain; Rat (Mayhan, W.G. (696) 106)

Cerebrospinal fluid
Rat; Striatum; Dopamine; MPP^+; 6-Hydroxydopamine; Parkinson's disease (Espino, A. (669) 19)

Nitro-L-arginine; Endothelin-1; Cerebral ischemia/reperfusion (Spatz, M. (684) 99)

β-Endorphin; Met-enkephalin; Analgesia; Arcuate nucleus; High performance liquid chromatography; Periaqueductal gray; Opioid (Bach, F.W. (690) 167)

Cysteine protease inhibitor; Choroid plexus; Delayed neuronal death; γ-Trace protein; CA1 (Palm, D.E. (691) 1)

Plasma; Amino acid; Ventromedial nucleus of the hypothalamus; Single unit activity; Brain slice (Nishimura, F. (691) 217)

β-Endorphin; Analgesia; Chromatography, high performance liquid; Pain; Spinal cord; Excitatory amino acids; Neurokinins (Bach, F.W. (701) 192)

Cerebrovascular amyloid
Amyloid β-protein; Diffuse plaque; Alzheimer's disease; Immunocytochemistry (Iizuka, T. (702) 275)

Cervical cord
Enkephalin; Cerebellar nucleus; Cerebellospinal projection; Rat; Immunohistochemistry; Double labelling (Ikeda, M. (690) 225)

Cervix
Solitary nucleus; Vagus; Reproduction; Uterus; Vagina; Viscera; Nucleus of the solitary tract (Hubscher, C.H. (702) 251)

C-fiber
Nociception; Antinociception; Substance P; Naloxone; Opioid; Tail-flick test; Capsaicin; Spinal cord; Primary afferent; CP-96,345; CP-96,344; CP-99,994 (Yashpal, K. (674) 97)

Analgesia; Pelvic nerve; Electrical stimulation; Aδ fiber (Cueva-Rolón, R. (679) 267)

c-*fos*
Substantia nigra; Entopeduncular nucleus; Globus pallidus; Dopamine antagonist; D_1 receptor; D_2 receptor (Wirtshafter, D. (670) 205)

Vole; Female; Estrus; Olfaction; Accessory olfactory system (Moffatt, C.A. (677) 82)

Acute inflammation; Aging; Trigeminal nerve; Brainstem (Iwata, K. (678) 127)

Immediate-early gene; Transcription factor; Visual system (Montero, V.M. (690) 189)

c-*jun*; Illumination; Immediate-early gene; Photoreceptor; Plastic change; Regeneration; Retina (Mallo, G. (693) 196)

Nucleus accumbens; Amphetamine; MK-801; NBQX (Dalia, A. (694) 299)

Nitric oxide; Cyclic AMP response element binding protein; Phosphorylation; Retinal pigment epithelium (Ohki, K. (696) 140)

Hypoxia; Immediate-early response gene; Pheochromocytoma-12 cell; Nerve growth factor; Neuroblastoma cell; Fibroblast (Prabhakar, N.R. (697) 266)

Activity; Hamster; Immunocytochemistry; Intergeniculate leaflet; Neuropeptide Y; Nonphotic; Rhythm; Suprachiasmatic nucleus (Janik, D. (698) 137)

Subfornical organ; Hypovolaemia; Polyethylene glycol; Osmotic stress; Hypertonic saline (Smith, D.W. (698) 232)

Immediate-early gene; D_1 receptor; D_2 receptor; Synergism; Globus pallidus; Subthalamic nucleus; SKF 38393; Quinpirole (Ruskin, D.N. (703) 156)

Deafferentation; Subthalamic nucleus; Substantia nigra pars reticulata; Non-NMDA receptor; Transneuronal cell death (Saji, M. (703) 165)

c-fos
c-jun; Estradiol; Fos; Jun-B; Jun-D; Lordosis; Progesterone; Sexual behavior (Flanagan-Cato, L.M. (673) 53)

Morphine; Adrenergic neuron; Ventrolateral medulla; α-Methyl norepinephrine; Clonidine (Baraban, S.C. (676) 245)

Satiety substance; Tyrosine hydroxylase; Immunohistochemistry; Hypothalamus; Rat (Hisano, S. (676) 409)

CREB; c-*jun*; Krox-24; Kainic acid; Seizure; Hippocampus (Blendy, J.A. (681) 8)

REM sleep; Auditory stimulation; Brainstem; Diencephalon (Merchant-Nancy, H. (681) 15)

Intestinal anaphylaxis; Paraventricular nucleus; Lateral parabrachial nucleus; Nucleus of the solitary tract; 5-HT_3 receptors; Vagus nerve (Castex, N. (688) 149)

c-*fos* gene
Metallothionein promoter; Exogenous control; NRK cell; Nf-1 cell; Transplantation; Angiogenesis; Neovascularization; Gene therapy (Asakuno, K. (702) 23)

CGP-35348
γ-Aminobutyric acid; Baclofen; Hippocampus; Memory; D-APV; Plasticity; *N*-Methyl-D-amphetamine (Brucato, F.H. (677) 326)

CGP39551
Ethanol; Hippocampus; *N*-Methyl-D-aspartate; Withdrawal; Magnesium; Field potential (Ripley, T.L. (699) 1)

CGP-39653
Excitotoxicity; Motor neuron; NMDAR1 subunit; Nociception; Peripheral neuropathy; Dorsal horn; Neural transplant (Hama, A.T. (687) 103)

CGP 42112
Angiotensin II; AT_2 receptor; Quantitative autoradiography; Medial geniculate nucleus; Inferior olive; Brain development (Heemskerk, F.M.J. (677) 29)

CGRP
Calcium-binding protein; Carotid body; Glossopharyngeal nerve; Nodose ganglion; Petrosal ganglion; Tyrosine hydroxylase; Vagus nerve (Ichikawa, H. (675) 337)

Neuropeptide; Cranial nerve; Plasticity (Thompson, G.C. (683) 140)

$CGRP_{8-37}$
Calcitonin gene-related peptide; β-Funaltrexamine; Naltrindole; nor-Binaltorphimine; Naloxone; Opioid receptor; Hindpaw withdrawal latency (Yu, L.-C. (698) 23)

Calcitonin gene-related peptide; Cerebral blood flow; Cerebral microvessel; Photoelectric method; Vasodilator (Kobari, M. (698) 95)

CGRP Receptor
Calcitonin gene-related peptide; Alcohol preference; Central amygdaloid nucleus; Nucleus accumbens (Hwang, B.H. (690) 249)

CGS 8216
Somatostatin receptor; Ammonium acetate; Frontoparietal cortex; Hippocampus; Rat (Boyano-Adánez, M.C. (688) 1)

CGS 15943
Cerebral ischemia; Gerbil; Adenosine antagonist; CP 66,713; Chlorostyrylxanthine; DPCPX; Stroke (Phillis, J.W. (705) 79)

CGS 21680
Adenosine A_{2a} receptor; Dopamine D_2 receptor; Binding affinity; Basal ganglia (Hillefors-Berglund, M. (690) 34)

Chaos
Hippocampal slice; CA3; Spontaneous epileptiform burst; Mossy fiber stimulation; Phase-locking; Strange attractor; One-dimensional strobomap; Spatial coherence (Hayashi, H. (686) 194)

Chelerythrine
Kinase inhibitor; Taurine; Retina; Protein phosphorylation (Lombardini, J.B. (673) 194)

Chemical coding
Calcium binding protein; Neuropeptide Y; Immunohistochemistry; Retrograde neuronal tracing; Autonomic nervous system; Sympathetic neuron (Grkovic, I. (684) 127)

Chemical hypoxia
Protein kinase C; Differentiated PC12 cells; Cyanide; Immunohistochemistry; Western blotting; LDH; Cytotoxicity (Pavlaković, G. (676) 205)

Chemical trauma
Olfactory epithelium; Olfactory neuron; Trauma-induced regeneration; $ZnSO_4$; Olfactory marker protein; Tissue culture; Differentiation (Sosnowski, J.S. (702) 37)

Chemoreceptor
Baroreceptor; Carotid sinus nerve; Histochemistry; Immunocytochemistry; Synapse; Transganglionic transport; Ultrastructure (Gatti, P.J. (693) 133)

Ion channel; Patch clamp; Tetrodotoxin; Glomus; Acclimatization; Oxygen (Hempleman, S.C. (699) 42)

Chemoreceptor excitation
Carbon monoxide; Carotid body; Cytochrome a_3^{2+}; O_2 consumption; PO_2 microelectrode (Lahiri, S. (684) 194)

Chemoreceptor pathway
Nucleus tractus solitarius; Norepinephrine; Tyrosine hydroxylase; Brainstem (Soulier, V. (674) 188)

Chemosensory
Vomeronasal organ; Olfactory system; Neurogenesis; Development; Precursor cell; Nestin (Osada, T. (683) 254)

Chemosensory system
Cyclic AMP-dependent protein kinase; Signal transduction; Brain; *Apis mellifera*; Insect (Hildebrandt, H. (679) 281)

Chick
Cerebral ischaemia; Hippocampus; Synapse density; Disector (Horner, C.H. (703) 245)

Chick embryo
Endothelin; Vasoactive peptide; Optic tectum (Hsu, L. (703) 72)

Chicken
Form-deprivation myopia; Dopaminergic amacrine cell; Stroboscopic illumination; Basic fibroblast growth factor (Rohrer, B. (686) 169)

Nitric oxide: Clonidine HCl; L-N^G-nitro-arginine methyl ester HCl (LNNA); Feeding behavior (Choi, Y.-H. (699) 161)

Spontaneous activity; Development; Cochlea; Hearing; Basilar papilla; Rhythmic; Auditory nerve (Lippe, W.R. (703) 205)

Aminoglycoside; Hair cell; Endocytosis; Immuno-gold; Cationic ferritin; Toxicity (Hashino, E. (704) 135)

Chicken antibody
Rat brain; Voltage-gated sodium channel; SDS-PAGE; Western blot (Jarnot, M.D. (674) 159)

Chick forebrain
Learning; Synaptic plasticity; *N*-Methyl-D-aspartate receptor (Bradley, P.M. (699) 103)

Chick ganglia
Sciatic nerve; Conditioned medium; Neurotrophic factor; PC12 cell; Dorsal root ganglion; Ciliary ganglion (Villegas, G.M. (685) 77)

Chick retina
Dopamine D_2-like receptor; Immunocytochemistry; Hybridization, in situ; Form-deprivation myopia (Rohrer, B. (695) 110)

Chicks
Synapse; De novo synthesis; Memory (Sojka, M. (684) 209)

Chloral hydrate
Valproic acid; Epilepsy; Anticonvulsant action; γ-Aminobutyric acid; Ketamine; Fentanyl; Opioid (Löscher, W. (702) 133)

α-Chloralose
Spreading depression; Halothane; Glutamate; Potassium; Microdialysis (Saito, R. (699) 109)

Active sleep; Muscle atonia; Microiontophoresis; Ponto-geniculo-occipital; Cat (López-Rodríguez, F. (699) 201)

Chloride accumulation
Whole-cell patch; Slice; Hippocampus; Inhibition; $GABA_A$; Fast inhibitory postsynaptic current; Disinhibition (Ling, D.S.F. (670) 142)

Chloride current
GABA receptor channel; Lindane; HCH isomer; Insecticide; Dorsal root ganglion (Nagata, K. (704) 85)

***p*-Chloroamphetamine**
Benzodiazepine; Monoamine; Locomotor activity; Circadian rhythm (Penev, P.D. (669) 207)

Serotonin release; Culture; Fenfluramine; 3,4-Methylenedioxyamphetamine; Raphe; Nimodipine; Conotoxin; Fluoxetine (Wichems, C.H. (695) 10)

***para*-Chloroamphetamine**
Glucocorticoid receptor; Mineralocorticoid receptor; Serotonin; Fluoxetine; Adrenalectomy (Novotney, S. (684) 19)

7-Chlorokynurenic acid
Glutamate; Glycine; *N*-Methyl-D-aspartate receptor; Glycine site; Ischemia; Organotypic hippocampal cultures; Acea 1021; MK-801 (Newell, D.W. (675) 38)

***p*-Chlorophenylalanine**
Rat; Sleep; Wake; Nucleus raphe dorsalis; Local injection; Corticotropin-like intermediate lobe peptide; Vasoactive intestinal polypeptide (El Kafi, B. (686) 150)

Serotonin transporter; Gene expression; Dorsal raphe nucleus; Hybridization, in situ; Autoradiography (Yu, A. (688) 209)

Chloroquine myopathy
Alzheimer's disease; Amyloid β protein; Amyloid precursor protein; Rimmed vacuole (Tsuzuki, K. (699) 260)

Chlorostyrylxanthine
Cerebral ischemia; Gerbil; Adenosine antagonist; CP 66,713; CGS 15943; DPCPX; Stroke (Phillis, J.W. (705) 79)

Chlorpromazine
Haloperidol; Raclopride; Risperidone; Thioridazine; Clozapine; Ritanserin; Fos; Forebrain; Immunohistochemistry (Wan, W. (688) 95)

Cholecystokinin
Interstitial neuron; Subplate neuron; Somatostatin; Neuropeptide Y; Substance P (Ang, L.-C. (674) 329)

Microdialysis; Dopamine; Nucleus accumbens; Spontaneously hypertensive rat (Kirouac, G.J. (689) 245)

Copulation; Dopamine; Intracranial stimulation; Nucleus accumbens; Sexual behavior; Ventral tegmental area (Markowski, V.P. (699) 266)

Cholera toxin
Tract tracing; Axonal transport; Inferior olive; Climbing fiber (Chen, S. (674) 107)

Opioid; μ Receptor agonist; δ Receptor agonist; κ Receptor agonist; Dorsal root ganglion neuron; K^+ Conductance; Neuroblastoma F11 cell; Pertussis toxin (Fan, S.-f. (696) 97)

Cholera toxin B
Corpus callosum; Interhemispheric; Immunocytochemistry; Retrograde tracing; Double labeling (Gonchar, Y.A. (697) 27)

Cholera toxin B subunit
Piriform cortex; Serotonin; Phaseolus vulgaris leucoagglutinin; Brainstem serotonergic nuclei; Colchicine; Nialamide (Datiche, F. (671) 27)

Cerebellar nucleus; Inferior olive; Red nucleus; Gold-lectin tracer; Axon collateral (Teune, T.M. (673) 313)

Carbohydrate; Cell sorting; Flow cytometry; Stem cell (Flaris, N.A. (678) 99)

Superior salivatory nucleus; Pterygopalatine ganglion; Tyrosine hydroxylase; Serotonin; Neuropeptide; Double-immunostaining technique (Nemoto, T. (685) 33)

Midline thalamus; Epinephrine; Immunohistochemistry; Phenylethanolamine *N*-methyltransferase; Behavior; Rat (Otake, K. (697) 17)

Cholesterol
Aging; Dopamine; Muscarinic receptor; *S*-Adenosyl-methionine; Striatum (Joseph, J.A. (673) 185)

Cholesterol oxidase
Cholesterol oxidation; $Ca^{2+} + Mg^{2+}$-ATPase; $Na^+ + K^+$-ATPase; Fluidity; Interdigitation; Synaptic plasma membrane (Wood, W.G. (683) 36)

Cholesterol oxidation
$Ca^{2+} + Mg^{2+}$-ATPase; $Na^+ + K^+$-ATPase; Cholesterol oxidase; Fluidity; Interdigitation; Synaptic plasma membrane (Wood, W.G. (683) 36)

Choline acetyltransferase
Ischemia; Pentobarbital; Acetylcholine; Brain dialysis; Delayed neuronal death; Hippocampus; Gerbil (Ishimaru, H. (673) 112)

Brain energy metabolism; Streptozotocin; Acetyl-L-carnitine; Spatial learning; Animal model; Neurodegeneration; Alzheimer's disease (Prickaerts, J. (674) 142)

Conditioned taste aversion; Chronic i.c.v. drug administration; Nerve growth factor; Alzheimer's disease; Rat; Memory; Conditioning (Lipinski, W.J. (692) 143)

Nerve growth factor; Parvalbumin; Nucleus basalis of Meynert; Cholinergic neuron; Cholinergic synapse (Burgos, I. (692) 154)

Rat; Basal forebrain; $GABA_A$ receptor α_1 subunit-immunoreactivity; Calcium-binding protein; Glutamic acid decarboxylase (Härtig, W. (692) 215)

Nitric oxide; Learning; Memory; Hemicholinium-3 (Tobin, J.R. (694) 177)

β-Amyloid; Calcium-binding protein; Cholinotoxicity; Medial septum; Parvalbumin (Harkany, T. (698) 270)

Cholinergic
Spatial memory; Radial arm maze; Learning strategy; High affinity choline transport; Rat (Janis, L.S. (679) 99)

Lithium; Inositol; Serotonergic; Phosphoinositide; Seizure (Williams, M.B. (685) 169)

BIBN 99; M2 antagonist; Memory; Morris water maze; Muscarinic; Rat; Traumatic brain injury; Treatment (Pike, B.R. (686) 37)

Excitotoxin; *N*-Methyl aspartic acid; Calcification; Basal forebrain; Alzheimer's disease; Down's syndrome (Stewart, G.R. (695) 81)

Hippocampus; Auditory evoked response; Fimbria-fornix lesion (Bickford, P.C. (705) 235)

Cholinergic basal forebrain
192-Saporin; Immunotoxin; Alzheimer's disease; Spatial memory; Animal model (Walsh, T.J. (702) 233)

Cholinergic basal forebrain neuron
Neurotrophin; mRNA expression; Immunolesion (Yu, J. (705) 247)

Cholinergic degeneration
rhNGF; rhbFGF; Dose–response; Neurotrophic factor; Fimbria-fornix; Transection; Hippocampus (Emmett, C.J. (673) 199)

Cholinergic marker
Nucleus basalis magnocellularis; Nodosal ganglion; Autotransplantation; Bifemelane hydrochloride; Event-related potential (P300) (Ikeda, K. (688) 171)

Cholinergic neuron
Nerve growth factor; Choline acetyltransferase; Parvalbumin; Nucleus basalis of Meynert; Cholinergic synapse (Burgos, I. (692) 154)

Cholinergic septo-hippocampal system
Glucose; Scopolamine; High-affinity choline uptake; Memory; Alzheimer's disease (Micheau, J. (685) 99)

Cholinergic synapse
Nerve growth factor; Choline acetyltransferase; Parvalbumin; Nucleus basalis of Meynert; Cholinergic neuron (Burgos, I. (692) 154)

Cholinergic synaptic vesicle
Rat neuromuscular junction; Miniature endplate current; Veratridine; Vesamicol; *Torpedo* electroplaque (Pemberton, K.E. (671) 267)

Cholinergic system
Basal forebrain; Cat; Enkephalin; Substance P; Immunocytochemistry (Rieck, R.W. (672) 237)

β-Amyloid$_{(1-42)}$ peptide; Nucleus basalis magnocellularis; Frontal cortex; Cholinotoxicity (Harkany, T. (695) 71)

Cholinotoxicity
β-Amyloid$_{(1-42)}$ peptide; Nucleus basalis magnocellularis; Frontal cortex; Cholinergic system (Harkany, T. (695) 71)

β-Amyloid; Calcium-binding protein; Choline acetyltransferase; Medial septum; Parvalbumin (Harkany, T. (698) 270)

Chondroitin / dermatan sulfate proteoglycan
Central nervous system; Lesion; Postcommissural fornix; Regeneration (Stichel, C.C. (704) 263)

Chondroitin proteoglycan
Vicia villosa agglutinin; Extracellular matrix (Bertolotto, A. (673) 344)

Chondroitin sulfate
Alzheimer's disease; β-Amyloid; Glycosaminoglycan; Heparan sulfate; Neurotoxicity; Neurodegeneration; Plaque (Woods, A.G. (697) 53)

Chondroitin sulfate proteoglycan
Retinal ganglion cell; Nitric oxide; Glutamate; Development (Nichol, K.A. (697) 1)

Chorda tympani
Rat; Licking; Taste; Mechanical stimulation; Saliva; Conduction velocity (Matsuo, R. (689) 289)

Reinnervation; Nerve repair; Lingual nerve; Tongue; Taste; Salivary gland (Smith, K.G. (691) 142)

Choroid epithelial cell
Epiplexus cell; Nitric oxide synthase-like immunoreactivity; Lipopolyssacharide; Postnatal rat (Lu, J. (699) 275)

Choroid plexus
Cysteine protease inhibitor; Cerebrospinal fluid; Delayed neuronal death; γ-Trace protein; CA1 (Palm, D.E. (691) 1)

Cytokine; Triangular septal nucleus; Septofimbrial nucleus; Habenular nucleus; Interpeduncular nucleus; Autoradiography; Blood–brain barrier; Capillary (Maness, L.M. (700) 83)

Guanylate cyclase; Ultracytochemistry; Porcine brain natriuretic peptide; Frog; Epithelial cell (Vagnetti, D. (705) 295)

Christinus marmoratus
Lizard; Melatonin; Pineal organ; Circadian rhythm; In vitro (Moyer, R.W. (675) 345)

Chromaffin cell
Excitatory amino acid; Nociception; Hyperalgesia; Allodynia; Spinal cord; Chronic pain; Neural graft (Siegan, J.B. (680) 88)

Muscarinic receptor; Cation channel; Phosphorylation; Dephosphorylation; Deactivation; AlF complex; G protein (Inoue, M. (687) 199)

Chromaffin cell transplant
Nucleus basalis magnocellularis lesion; Selective attention (Welner, S.A. (671) 309)

Chromatography, high performance liquid
β-Endorphin; Cerebrospinal fluid; Analgesia; Pain; Spinal cord; Excitatory amino acids; Neurokinins (Bach, F.W. (701) 192)

Chronic cocaine
Putrescine; Spermidine; Spermine; Convulsion; Mouse (Shimosato, K. (684) 243)

Chronic hypoxia
Brain regulation; Development; Glucose transporter; Glyceraldehyde 3-phosphate dehydrogenase; mRNA (Xia, Y. (675) 224)

Chronic i.c.v. drug administration
Conditioned taste aversion; Choline acetyltransferase; Nerve growth factor; Alzheimer's disease; Rat; Memory; Conditioning (Lipinski, W.J. (692) 143)

Chronic inflammation
γ-Aminobutyric acid; Receptor; Spinal cord; Neurectomy; Pain; Complete Freund's adjuvant (CFA); Plasticity (Castro-Lopes, J.M. (679) 289)

Chronic monoarthritis
Tyrosine hydroxylase mRNA; Pontine noradrenergic cell group; Hybridization, in situ (Cho, H.-J. (695) 96)

Chronic nicotine treatment
[^{3}H]Cytisine; Brain; Immobilization stress (Takita, M. (681) 190)

Chronic pain
Excitatory amino acid; Nociception; Hyperalgesia; Allodynia; Spinal cord; Neural graft; Chromaffin cell (Siegan, J.B. (680) 88)

Chronic restraint stress
Dendritic spine; Excrescence; Hippocampus (Sunanda, (694) 312)

Chronic treatment
Clozapine; Dopamine release; Brain microdialysis (Invernizzi, R. (670) 165)

Opioid; Gene expression; Prodynorphin mRNA; Rat brain; Nor-binaltorphimine; Naloxone; Naltrexone (Romualdi, P. (672) 42)

Hypoxia/hypoglycemia; Ethanol; 2-Deoxyglucose; Withdrawal syndrome; Tolerance (Shibata, S. (673) 320)

Citalopram; Dorsal hippocampus; Microdialysis; Serotonin; 5-HT$_{1A}$ receptor; Terminal 5-HT autoreceptor (Invernizzi, R. (696) 62)

Chronoamperometry
Cocaine; Self-administration; Rat; Nucleus accumbens; SCH 23390 (Egilmez, Y. (701) 142)

Ciliary ganglion
Substance P; Calcitonin gene-related peptide; Vasoactive intestinal polypeptide; Neuropeptide Y; Tyrosine hydroxylase; Dopamine-β-hydroxylase; Human (Kirch, W. (681) 229)

Sciatic nerve; Conditioned medium; Neurotrophic factor; PC12 cell; Chick ganglia; Dorsal root ganglion (Villegas, G.M. (685) 77)

Ciliary ganglion cell
Fura-2 microfluorometry; SBFI microfluorometry; Nicotine; Muscarine; Ca^{2+} channel blocker (Sorimachi, M. (669) 26)

Fura-2 microfluorometry; Nicotine; Muscarine; Ca^{2+} channel antagonist; Mn^{2+} influx (Sorimachi, M. (696) 67)

Ciliary neurotrophic factor
Axotomy; Degeneration; Survival; Neurotrophin-3 (Weibel, D. (679) 249)

Astrogliosis; Glial fibrillary acidic protein; Cytokine; Tumor necrosis factor-α; ED1; MHCII; Microglia (Kahn, M.A. (685) 55)

Cingulate cortex
Carboxylesterase; Oligodendrocyte; Hypothalmus; Spinal trigeminal nucleus (Yamada, T. (674) 175)

Water maze; Passive avoidance; Muscarinic receptor (Riekkinen Jr., P. (685) 46)

Excitatory amino acid; *N*-Methyl-D-aspartate antagonist; Dizocilpine maleate; MK-801; Neurotoxicity; Neuropathology; Rat (Fix, A.S. (696) 194)

Cortical field potential; Vocalization; Monkey; Broca's area; Cerebellar hemispherectomy (Gemba, H. (697) 143)

[^{14}C]Iodoantipyrine
N^{G}-Nitro-L-arginine methyl ester; Nitroarginine; Local cerebral blood flow; Cerebral blood flow; Brain; Autoregulation (Takahashi, S. (678) 21)

Circadian
NPY; Phase shift; Wheel running; Hamster; Suprachiasmatic nucleus (Biello, S.M. (673) 25)

Rhythm; Retina; Cell proliferation; Teleost (Chiu, J.F. (673) 119)

Tryptophan hydroxylase; Melatonin; Serotonin; Retina; Light; Dopamine; *Xenopus* (Green, C.B. (677) 283)

Suprachiasmatic; Transplantation; Aging; Neural graft; Hamster (Viswanathan, N. (686) 10)

Cone; Mouse; Photoreceptor; Retinal degenerate; Retinaldehyde; Rod; Vitamin A (Provencio, I. (694) 183)

Circadian rhythm
Acetyl-CoA; Serotonin *N*-acetyltransferase; Arylamine *N*-acetyltransferase; Melatonin (Wolfe, M.S. (669) 100)

p-Chloroamphetamine; Benzodiazepine; Monoamine; Locomotor activity (Penev, P.D. (669) 207)

Suprachiasmatic nucleus; Biological clock; Synchronization; Electrophysiology (Bouskila, Y. (670) 333)

Melatonin; 5-Methoxytryptophol; Pineal organ; Human; Photoperiod; Season (Hofman, M.A. (671) 254)

Methamphetamine; Haloperidol; Suprachiasmatic nucleus; Locomotor activity; Phase–response curve (Honma, S. (674) 283)

Monosodium glutamate; Suprachiasmatic nucleus; Intergeniculate leaflet; Photic stimulation; Constant light; Fos immunocytochemistry (Edelstein, K. (675) 135)

γ-Aminobutyric acid; $GABA_A$; NPY (Huhman, K.L. (675) 333)

Lizard; *Christinus marmoratus*; Melatonin; Pineal organ; In vitro (Moyer, R.W. (675) 345)

Oxytocin; Microdialysis; Supraoptic; Paraventricular (Kalsbeek, A. (682) 75)

Suprachiasmatic nucleus; Paraventricular nucleus; Phaseolus vulgaris-leucoagglutinin; Corticotropin-releasing factor; Dual immunocytochemistry (Vrang, N. (684) 61)

Suprachiasmatic nucleus; Pacemaker; Protein synthesis; Anisomycin; Cell culture; Antisense; Vasopressin (Watanabe, K. (684) 179)

Suprachiasmatic nucleus; Melatonin; Potassium conductance; H-current (Jiang, Z.-G. (687) 125)

Melatonin; Temperature; Alertness; Performance; Sleep; Phase-shifting (Deacon, S. (688) 77)

Reproduction; Neuroanatomy; Hypothalamus; Immunocytochemistry; Electron microscopy; Estrogen receptors (Watson, Jr., R.E. (689) 254)

Suprachiasmatic nucleus; Intergeniculate leaflet; Non-photic stimulus; Fos immunoreactivity (Edelstein, K. (690) 254)

Intergeniculate leaflet; Pineal gland; *N*-Acetylserotonin; Deep pineal; Lamina intercalaris (Cipolla-Neto, J. (691) 133)

Nitric oxide; Suprachiasmatic nucleus; Fos; Photic entrainment (Weber, E.T. (692) 137)

Melatonin; Pineal gland (Akasaka, K. (692) 283)

Melatonin; Pineal gland; Cell culture (Murakami, N. (693) 1)

Hypothalamus; Brain slice; γ-Aminobutyric acid (Gannon, R.L. (694) 264)

Suprachiasmatic nucleus; Long-term potentiation; Field potential (Nishikawa, Y. (695) 158)

α-Fluoromethylhistidine; FMH; Hamster; Histamine; Light; Suprachiasmatic nucleus (Eaton, S.J. (695) 227)

Suprachiasmatic nucleus; Aging (Watanabe, A. (695) 237)

Circadian system
Hypothalamus; Neuronal nitric oxide synthase; Hamster; NADPH-diaphorase; Western blot; Vasoactive intestinal polypeptide (Reuss, S. (695) 257)

Circling
Marijuana; Cannabis; Catalepsy; Basal ganglia (Anderson, L.A. (691) 106)

Circling training
Muscarinic receptor; Receptor binding; Plasticity; Development; Rat striatum (Ibarra, G.R. (705) 39)

Circular dichroism spectroscopy
Alzheimer's disease; Hippocampal neuron; Leak membrane conductance; Amyloid β peptide; β-sheet structure; Aging; Whole-cell voltage-clamp (Li, W.Y. (682) 207)

Circumventricular organ
Fos-like immunoreactivity; Dehydration; Polydipsia; Hypothalamus; Water balance; Inbred mouse (Ueta, Y. (677) 221)

Hippocampus; Guanine nucleotide; Brain angiotensin system; Receptor pharmacology; Quantitative autoradiography (De Oliveira, A.M. (705) 177)

Area postrema; Potassium channel; Sodium channel; Angiotensin II (Hay, M. (705) 199)

Circumventricular region
Vasoactive intestinal polypeptide; Hypothyroidism; Forebrain; Hypothalamus; Immunocytochemistry (Toni, R. (682) 101)

Cisplatin
Transplatin; Ototoxicity; Cochlear outer hair cell; Whole-cell patch-clamp; Voltage-dependent calcium channel; Compound action potential (Saito, T. (697) 276)

Citalopram
Chronic treatment; Dorsal hippocampus; Microdialysis; Serotonin; $5\text{-}HT_{1A}$ receptor; Terminal 5-HT autoreceptor (Invernizzi, R. (696) 62)

Citrate
Control of breathing; Acetylcholine; Isolated brainstem; 3-Bromopyruvate; Hydroxycitrate; Triethylcholine; Atropine (Burton, M.D. (670) 39)

c-*jun*
c-fos; Estradiol; Fos; Jun-B; Jun-D; Lordosis; Progesterone; Sexual behavior (Flanagan-Cato, L.M. (673) 53)

Amyotrophic lateral sclerosis; Motor neurone disease; Spinal cord; Glutamate receptor; NMDA receptor; NR1 mRNA; Glycine transporter (Virgo, L. (676) 196)

CREB; c-fos; Krox-24; Kainic acid; Seizure; Hippocampus (Blendy, J.A. (681) 8)

c-*fos*; Illumination; Immediate-early gene; Photoreceptor; Plastic change; Regeneration; Retina (Mallo, G. (693) 196)

NR-1; mRNA; Nerve crush; Glutamate receptor; Axotomy; Development (Hay, C. (704) 145)

Cl^-
Neurotoxicity; Depolarization; Glutamate; *N*-Methyl-D-aspartate; Hippocampus; Ca^{2+} (Takahashi, M. (675) 249)

Cl^- channel blocker
Regulatory volume decrease; K^+ channel blocker; Ouabain; Bumetanide; Stretch-activated channel blocker; Cytosolic Ca^{2+} (Lippmann, B.J. (686) 29)

Climbing fiber
Cholera toxin; Tract tracing; Axonal transport; Inferior olive (Chen, S. (674) 107)

Clione limacina
Mollusc; Pleural ganglia; Neuron culture; Cell recognition (Panchin, Y.V. (669) 315)

Clonazepam
γ-Aminobutyric acid; Benzodiazepine; Harmaline; Picrotoxin; Hippocampus (Weiss, M. (695) 105)

Clonidine
α_{2A}-Adrenergic receptor; Imidazoline I_1- and I_2-receptor(s); Rilmenidine; Idazoxan; Autoradiography (King, P.R. (675) 264)

Morphine; Adrenergic neuron; Ventrolateral medulla; c-fos; α-Methyl norepinephrine (Baraban, S.C. (676) 245)

Imidazoline receptor; Nucleus tractus solitarius; Rostral ventrolateral medulla; Barodenervation; Hypotension; Autoradiography (El-Mas, M.M. (691) 195)

Clonidine HCl
Nitric oxide; L-N^G-nitro-arginine methyl ester HCl (LNNA); Feeding behavior; Chicken (Choi, Y.-H. (699) 161)

Closed head injury
Edema; Memory; HU-211; Rat (Shohami, E. (674) 55)

Calcium accumulation; ^{45}Calcium; Cannabinoid; Head trauma; HU-211 (Nadler, V. (685) 1)

Fos immunohistochemistry; *N*-Methyl-D-aspartate receptor; Lactation; Rat (Woodside, B. (690) 48)

Clostridial neurotoxin
Acetylcholine release; Synaptic vesicle exocytosis; Synaptosome; *Torpedo*; Neuromuscular junction; Miniature end plate current; VAMP/synaptobrevin (Herreros, J. (699) 165)

Clozapine
Chronic treatment; Dopamine release; Brain microdialysis (Invernizzi, R. (670) 165)

Haloperidol; Chlorpromazine; Raclopride; Risperidone; Thioridazine; Ritanserin; Fos; Forebrain; Immunohistochemistry (Wan, W. (688) 95)

CM/Pf complex
Thalamostriatal fiber; Central lateral nucleus; Posterior thalamic group; Striatal matrix; Ethmoid nucleus (Deschênes, M. (701) 288)

rCMRglc
Buspirone; Serotonin 5-HT; DPAT; Anxiolytic (Freo, U. (677) 213)

CNQX
NBQX; Retinal ganglion cell; *N*-Methyl-D-aspartate and non-NMDA receptor (Yu, W. (692) 190)

AMPA/kainate receptor; GYKI-52466; Micturition; Pontine micturition center (Matsumoto, G. (693) 246)

CNS inflammation
Blood–brain barrier; Endothelium; Microvessel; Tight junction (Biegel, D. (692) 183)

CO_2
Oligodendroglia; Astroglia; Brain; Carbonic anhydrase II (Agnati, L.F. (676) 10)

Cobalt
δ Opioid receptor; Naltrindole; Hypoxia; Heme protein; 4,6-Dioxoheptanoic acid; NG108-15 cell (Mayfield, K.P. (676) 358)

Cocaine
Amphetamine; Dopamine; Glutamate; γ-Aminobutyric acid; Stereotypy; Striatum; Mouse (Karler, R. (671) 100)

Sulpiride; SCH-23390; Dopamine receptor; D1-like; D2-like; *N*-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Receptor occupancy; Locomotor activity; Stereotypy; Nucleus accumbens (Neisewander, J.L. (671) 201)

Serotonin 5-HT_3 receptor; Competitive inhibition; *Xenopus* oocyte; Voltage-clamp (Fan, P. (673) 181)

Conditioned place preference; SCH 23390; (−)-Sulpiride; MK-801; DNQX; Rat (Cervo, L. (673) 242)

Adenylyl cyclase; Cyclic AMP; Nucleus accumbens; Sensitization; Locomotor activity; Cyclic AMP-dependent protein kinase (Miserendino, M.J.D. (674) 299)

Dopamine; Sensitization; Fast cyclic voltammetry; Nucleus accumbens; Ventral tegmental area; Rat (Williams, J.E.G. (678) 225)

Slow depolarizing after-potential; Epileptiform activity; Seizure-like activity; Kynurenic acid; Tetrodotoxin; Veratridine (Tian, L.-M. (680) 164)

U50,488; Spiradoline; Nor-binaltorphimine; Morphine; Kappa opioid; Drug self-administration (Glick, S.D. (681) 147)

Nucleus accumbens; MDMA; Ecstasy; Striatum; Withdrawal; Drug abuse (White, S.R. (681) 167)

Cocaine self-administration; Neurotransmitter turnover rate; Dopamine; Noradrenaline; Serotonin; γ-Aminobutyric acid; Glutamate; Aspartate (Dworkin, S.I. (682) 116)

Septum; Hippocampus; Place-preference conditioning; Reward (Gong, W. (683) 221)

Aspartate; Glutamate; Microdialysis; Nucleus accumbens; Stereotypy (Smith, J.A. (683) 264)

γ-Aminobutyric acid; Development; Cortex; Limbic; Anterior cingulate (Wang, X.-H. (689) 32)

Accumbens; Amygdala; Dopamine D1; Reinforcement; SCH 23390; Self-administration; Striatum (Caine, S.B. (692) 47)

6,7-Dinitroquinoxaline-2,3-dione; Nucleus accumbens; Conditioned place preference (Kaddis, F.G. (697) 76)

Self-administration; Social stress; Aggression; Sex difference; Female; Rat (Haney, M. (698) 46)

Chronoamperometry; Self-administration; Rat; Nucleus accumbens; SCH 23390 (Egilmez, Y. (701) 142)

Activity; Behavior; Cadmium; Sensitization; Toxicity (Nation, J.R. (702) 223)

Cocaine receptor
Dopamine transporter; RTI-55; WIN 35,428; Quantitative autoradiography; Dopamine metabolism; Dopamine uptake (Coulter, C.L. (690) 217)

Cocaine self-administration
Cocaine; Neurotransmitter turnover rate; Dopamine; Noradrenaline; Serotonin; γ-Aminobutyric acid; Glutamate; Aspartate (Dworkin, S.I. (682) 116)

Cocaine withdrawal
Corticotropin-releasing factor; Anxiety; Plus maze (Sarnyai, Z. (675) 89)

Cochlea
Spontaneous activity; Development; Chicken; Hearing; Basilar papilla; Rhythmic; Auditory nerve (Lippe, W.R. (703) 205)

Cochlear nucleus
Reticular formation; Conduction velocity; Reflex (Frankland, P.W. (670) 97)

Cochlear outer hair cell
Transplatin; Cisplatin; Ototoxicity; Whole-cell patch-clamp; Voltage-dependent calcium channel; Compound action potential (Saito, T. (697) 276)

Coeliac-superior mesenteric ganglia
Whole-cell patch-clamp; Perforated patch; M-Current; A-Current; Ca^{2+}-activated K^+ current; Delayed rectifier K^+ current; 4-Aminopyridine; Tetraethylammonium; Muscarinic agonist (Carrier, G.O. (701) 1)

Coexistence
Oxytocin; Vasopressin; Electrophysiology; Milk-ejection reflex; Phenotype; Plasticity (Moos, F.C. (669) 309)

Nerve injury; Pain; Plasticity; Primary sensory neuron; Spinal cord (Zhang, Q. (705) 149)

Cognition
Parkinsonism; Monkey; Dopamine; Motor behavior; Recovery (Schneider, J.S. (672) 112)

Aging; α-Tocopherol; Antioxidant; Ascorbate; Free radical; Phenyl-α-*tert*-butylnitrone; TBARS (Socci, D.J. (693) 88)

Cognition-enhancing
Aging; Nicotine; Acetylcholine; Nicotinic agonist; Rat; Age-associated memory impairment (Arendash, G.W. (674) 252)

Coherence analysis
Autospectral analysis; Electroencephalogram; Harmaline; Inferior olivary activity (Barman, S.M. (671) 345)

Colchicine
Lysosome; Microtubule; Dendrite; Neuronal transport; Hypoglossal nucleus; Fluorescent microsphere (Beske, O. (669) 125)

Piriform cortex; Serotonin; Phaseolus vulgaris leucoagglutinin; Cholera toxin B subunit; Brainstem serotonergic nuclei; Nialamide (Datiche, F. (671) 27)

Alzheimer's disease; Calcium; Excitototoxicity; Fura-2; Glutamate; Microtubule; Taxol (Furukawa, K. (689) 141)

Hypothalamus; Neurohypophysis; Plasticity; Anti-F3 antibody (Olive, S. (689) 271)

Rat; Olfaction; Dentate gyrus; Hippocampus; Fast wave; Evoked potential; Kainic acid (Heale, V.R. (690) 157)

Hippocampal granule cell; Amygdala; Kindling; Sprague-Dawley rat; Wistar rat (Tsunoda, K. (691) 18)

Cold block
Nerve; Protein transport; Transport reversal; Microtubule; Taxol (Smith, R.S. (672) 205)

Cold receptor
Adaptation; Temperature; Menthol; Electrophysiological recording; Trigeminal nerve (Lundy Jr., R.F. (676) 169)

Collagen IV
Alzheimer's disease; Basement membrane; Blood–brain barrier; Cerebral microvessel; Hydroxyproline (Kalaria, R.N. (705) 349)

Collateral
Retina; Ganglion cell; Visual system; *Spermophilus tridecemlineatus* (Lugo, N. (673) 161)

Co-localisation
Nitric oxide synthase; NADPHd; Retina; Vasculature; Human; Rat (Roufail, E. (684) 36)

Colocalization
Serotonin; γ-Aminobutyric acid; Glutamic acid decarboxylase; Nucleus raphe magnus; Dorsal raphe nucleus; Immunohistochemistry (Stamp, J.A. (677) 39)

Neuroendocrinology; False transmitter; Interaction; Cotransmission; Superfluous transmitter; Periventriculo-hypophyseal (Vanhatalo, S. (687) 205)

Colon
Visceral; Nociception; Colorectal distension; Inflammation; Acetic acid (Burton, M.B. (672) 77)

Colorectal distension
Pain; Nociception; Viscera; Pentobarbital (Follett, K.A. (669) 157)

Visceral; Nociception; Colon; Inflammation; Acetic acid (Burton, M.B. (672) 77)

Commissural fiber
Inferior colliculus; Enkephalin; Neuropeptide Y; Ascending auditory projections; Rat (Nakagawa, H. (690) 236)

Commitment
Neuronatin; Development; Brain; Gene; Neuroepithelium; Proliferation; Differentiation; Migration (Joseph, R. (690) 92)

Compartmentation
Glutamate; Glutamine; Vestibular endorgan; Rat; Immunocytochemistry (Usami, S.-i. (676) 285)

Compensation
Vestibular stimulation; Neuronal activity; γ-Aminobutyric acid; Cerebellum; Morphometry; Cerebellectomy; Ataxia (Grüsser-Cornehls, U. (703) 51)

Competitive inhibition
Serotonin 5-HT_3 receptor; Cocaine; *Xenopus* oocyte; Voltage-clamp (Fan, P. (673) 181)

Complete Freund's adjuvant (CFA)
γ-Aminobutyric acid; Receptor; Spinal cord; Chronic inflammation; Neurectomy; Pain; Plasticity (Castro-Lopes, J.M. (679) 289)

Tolerance, opioid; Nociception; Inflammation, chronic; Analgesia; Stress-induced analgesia; Tail-flick latency; Pain, chronic (Gutstein, H.B. (680) 173)

Compound action potential
Transplatin; Cisplatin; Ototoxicity; Cochlear outer hair cell; Whole-cell patch-clamp; Voltage-dependent calcium channel (Saito, T. (697) 276)

Computer microscope
Freezing technique; Culture; Neuron-specific enolase; γ-Aminobutyric acid; Thienyl-phencyclidine; Principal component analysis (Petite, D. (669) 263)

Concussion
Ionic flux; Lactate; Excitatory amino acid; Glucose metabolism; Microdialysis; Glycolysis (Kawamata, T. (674) 196)

Conditional discrimination
β-Amyloid; Behavior; Memory (Cleary, J. (682) 69)

Conditioned emotional response
Microdialysis; Glutamate; γ-Aminobutyric acid; Nucleus accumbens (Saulskaya, N. (698) 114)

Conditioned medium
Sciatic nerve; Neurotrophic factor; PC12 cell; Chick ganglia; Dorsal root ganglion; Ciliary ganglion (Villegas, G.M. (685) 77)

Insulin-like growth factor-II; Insulin-like growth factor binding protein-2; Meninges; Pia mater (Ishikawa, K. (697) 122)

Conditioned place preference
Cocaine; SCH 23390; (−)-Sulpiride; MK-801; DNQX; Rat (Cervo, L. (673) 242)

Morphine; Zolantidine; L-Histidine; α-Fluoromethylhistidine (α-FMH); SCH 23390; DA turnover (Suzuki, T. (675) 195)

Cocaine; 6,7-Dinitroquinoxaline-2,3-dione; Nucleus accumbens (Kaddis, F.G. (697) 76)

Conditioned taste aversion
Nucleus of solitary tract; Pontine parabrachial nucleus; Learning; Emetic drug; Area postrema; c-Fos-like immunoreactivity (Swank, M.W. (673) 251)

Chronic i.c.v. drug administration; Choline acetyltransferase; Nerve growth factor; Alzheimer's disease; Rat; Memory; Conditioning (Lipinski, W.J. (692) 143)

Conditioning
Context-specific sensitization; Environment-specific sensitization; Novelty; Stress; Rotational behavior; Striatum; Dopamine; Rat (Badiani, A. (674) 291)

β-Endorphin; Dynorphin; NK cell activity (Hsueh, C.-M. (678) 76)

Medial geniculate; Amygdala; Habituation; Extinction; Heart rate; Rabbit (McEchron, M.D. (682) 157)

Conditioned taste aversion; Chronic i.c.v. drug administration; Choline acetyltransferase; Nerve growth factor; Alzheimer's disease; Rat; Memory (Lipinski, W.J. (692) 143)

Conduction velocity
Cochlear nucleus; Reticular formation; Reflex (Frankland, P.W. (670) 97)

Rat; Chorda tympani; Licking; Taste; Mechanical stimulation; Saliva (Matsuo, R. (689) 289)

Cone
Circadian; Mouse; Photoreceptor; Retinal degenerate; Retinaldehyde; Rod; Vitamin A (Provencio, I. (694) 183)

Conflict
Bicuculline methiodide; Social interaction; Kindling; Long-term potentiation (Sanders, S.K. (699) 250)

Confocal laser scanning microscopy
SCG; Decentralization; GAP-43; p38 (synaptophysin); Immunohistochemistry (Hou, X.-E. (679) 49)

Suprachiasmatic nucleus; Tyrosine hydroxylase; Ontogenesis; Immunohistochemistry; Vasoactive intestinal polypeptide; Somatostatin; Neuropeptide Y; Aromatic L-aminoacid decarboxylase (Battaglia, A.A. (696) 7)

Confocal microscopy
AMPA receptor; Immunocytochemistry; Ultrastructure; Vestibular system; Rat; Guinea pig (Demêmes, D. (671) 83)

Excitotoxicity; Glutamate; *N*-Methyl-D-aspartate; Indo-1; Cell culture (Limbrick Jr., D.D. (690) 145)

Glutamate; Intracellular calcium; Neuronal culture; Neuroprotection; Sigma ligand (Klette, K.L. (704) 31)

Conformation
Aβ; Amyloid; Alzheimer's disease; Synthetic peptide; Antibody (Kametani, F. (703) 237)

Conformational analysis
Phosphoinositide turnover; M_1 selective agonist; Xanomeline; Rat brain; Antagonist (Periyasamy, S. (693) 118)

Connexin-43
Astrocyte; Gap junction; Immunohistochemistry; Kainic acid; *N*-Methyl-D-aspartate; Transblot, in situ (Sawchuk, M.A. (683) 153)

Conopeptide
Calcium channel; ω-Conopeptide MVIIC; Brain ischemia; Hypothermia; Excitatory amino acid; Microdialysis; Rabbit (Wu, G. (692) 118)

ω-Conopeptide MVIIC
Calcium channel; Conopeptide; Brain ischemia; Hypothermia; Excitatory amino acid; Microdialysis; Rabbit (Wu, G. (692) 118)

Conotoxin
Calcium channel; GT1-7 neuron; Voltage-dependent Ca^{2+} channel; Nimodipine; BayK 8644; Hypothalamus; GnRH (Javors, M.A. (694) 49)

Serotonin release; Culture; Fenfluramine; 3,4-Methylenedioxyamphetamine; *p*-Chloroamphetamine; Raphe; Nimodipine; Fluoxetine (Wichems, C.H. (695) 10)

ω-Conotoxin
Prejunctional inhibition; Acetylcholine; Nitroxidergic nerve; Vasoactive intestinal polypeptide; Magnesium (Toda, N. (700) 213)

ω-Conotoxin GVIA
Dopamine release; Acetylcholine release; Retina; ω-Conotoxin MVIIC; ω-Agatoxin IVA (Tamura, N. (676) 363)

ω-Agatoxin IVA; ω-Conotoxin MVIIC; Voltage-sensitive calcium channels; Intracellular Ca^{2+}; Hippocampal synaptosomes (Malva, J.O. (696) 242)

ω-Conotoxin MVIIC
Dopamine release; Acetylcholine release; Retina; ω-Conotoxin GVIA; ω-Agatoxin IVA (Tamura, N. (676) 363)

ω-Conotoxin GVIA; ω-Agatoxin IVA; Voltage-sensitive calcium channels; Intracellular Ca^{2+}; Hippocampal synaptosomes (Malva, J.O. (696) 242)

Consciousness
Learning; Memory; Recognition; Priming; Rat; Recognition; Anesthesia; Rhinal cortex; Single unit; Visual; Hippocampal (Zhu, X.O. (689) 101)

Constant light
Circadian rhythm; Monosodium glutamate; Suprachiasmatic nucleus; Intergeniculate leaflet; Photic stimulation; Fos immunocytochemistry (Edelstein, K. (675) 135)

Context-specific sensitization
Stress; Corticosterone; Hypothalamic-pituitary-adrenal axis; Novel environment; Novelty; Sensitization; Environment-specific sensitization; Rotational behavior; Locomotor activity; Rearing behavior; Rat (Badiani, A. (673) 13)

Conditioning; Environment-specific sensitization; Novelty; Stress; Rotational behavior; Striatum; Dopamine; Rat (Badiani, A. (674) 291)

Contractile force
Muscle receptor; Tendon organ; Ib afferent; Motor unit; Muscle contraction (Davies, P. (690) 82)

Controlled release
Nerve growth factor; Diffusion; Elimination; Brain interstitium; Polymer (Krewson, C.E. (680) 196)

Control of breathing
Acetylcholine; Isolated brainstem; 3-Bromopyruvate; Hydroxycitrate; Citrate; Triethylcholine; Atropine (Burton, M.D. (670) 39)

Phrenic; Hypoglossal; Airway (Di Pasquale, E. (695) 271)

Control of respiration
Apneusis; *N*-Methyl-D-aspartate receptor; Dizocilpine; Anesthetics; Mice; Rodent (Cassus-Soulanis, S. (679) 25)

Contusion
Head trauma; Catecholamine; 3-Methoxy-4-hydroxyphenylglycol; MHPG; Sensorimotor cortex; Somatosensory cortex (Levin, B.E. (674) 307)

Convulsant site
GABA receptor; RDL (resistance to dieldrin) subunit; *Drosophila melanogaster*; Bicyclic dinitrile (Hosie, A.M. (693) 257)

Convulsion
Hyperbaric oxygen; Excitatory amino acid; γ-Aminobutyric acid; Ammonia; Brain; Mouse (Mialon, P. (676) 352)

Picrotoxin; 2,3-Butanedione monoxime; γ-Aminobutyric acid; Anticonvulsant; Whole cell current in response to GABA; 2,3-Butanedione (Brightman, T. (678) 110)

Picrotoxin; Fos; Immunohistochemistry; Cortex; Thalamus; Caudate-putamen; Hippocampus; Rat (Willoughby, J.O. (683) 73)

Putrescine; Spermidine; Spermine; Chronic cocaine; Mouse (Shimosato, K. (684) 243)

Cool storage
Hibernation medium; Microtransplantation; Dopamine neuron; Parkinson's disease (Nikkhah, G. (687) 22)

Copper
Manganese; Molybdenum; Rubidium; Zinc; Long-Evans Cinnamon rat; Brain; Wilson disease (Saito, T. (695) 240)

Copulation
Cholecystokinin; Dopamine; Intracranial stimulation; Nucleus accumbens; Sexual behavior; Ventral tegmental area (Markowski, V.P. (699) 266)

Core
Shell; Rostral pole; D_2 autoreceptor; Neuronal uptake; Fast cyclic voltammetry; Dopamine (Wieczorek, W. (699) 171)

Corpus callosum
Interhemispheric; Immunocytochemistry; Retrograde tracing; Cholera toxin B; Double labeling (Gonchar, Y.A. (697) 27)

Sex difference; Genu; Myelinated axon; Unmyelinated axon; Myelin sheath; Electron microscopy (Mack, C.M. (697) 152)

Kindling; Long-term potentiation; Kindling-induced potentiation; Plasticity; Memory; Neocortex (Racine, R.J. (702) 77)

Long-term potentiation; Plasticity; Memory; Neocortex (Racine, R.J. (702) 87)

Correlated activity
Area 3b; Squirrel monkey; Dynamic maintenance; Syndactyly (Garraghty, P.E. (686) 119)

Cortex
Acetylcholine; High affinity choline uptake; Diencephalic amnesia; Hippocampus (Béracochéa, D.J. (670) 53)

Recovery; Motor function; Norepinephrine; Stroke; Trauma; Rat (Goldstein, L.B. (674) 167)

Serotonin; Stressor; Microdialysis; Striatum; Hippocampus; Amygdala; Septum (Kirby, L.G. (682) 189)

Picrotoxin; Convulsion; Fos; Immunohistochemistry; Thalamus; Caudate-putamen; Hippocampus; Rat (Willoughby, J.O. (683) 73)

Brainstem; Hypoxia; Anoxia; Electrophysiology; In vitro; Brain slice (O'Reilly, J.P. (683) 179)

Heat shock; Phencyclidine; DNQX; Excitotoxicity; AMPA receptor; Ketamine; Rat (Sharp, J.W. (687) 114)

γ-Aminobutyric acid; Development; Cocaine; Limbic; Anterior cingulate (Wang, X.-H. (689) 32)

Histamine; H_3 receptor; Stress; Amitriptyline (Ghi, P. (690) 104)

Dendritic spine; Nitric oxide; Non-pyramidal cell; γ-Aminobutyric acid (Gabbott, P.L.A. (698) 253)

Striatum; Corticostriatal afferent; Fos; Dopamine receptor; Glutamate receptor (Liste, I. (700) 1)

Methamphetamine; Striatum; Glutamate; Dopamine; Microdialysis (Stephans, S.E. (700) 99)

Inferior colliculus; Seizure; 2-Deoxyglucose; c-Fos (McCown, T.J. (701) 117)

Haloperidol; Microdialysis; Caudate putamen; Dopamine; Neurotensin (See, R.E. (704) 202)

Cortical
6-Hydroxydopamine lesion; Voltammetry; Subcortical; Psychosis (Thompson, T.L. (686) 93)

Adenovirus; Gene transfer; Thalamic; Organotypic cocultures and development (Wilkemeyer, M.F. (703) 129)

Cortical cell culture
β-Amyloid; Neurotoxicity; Glutamate; Excitotoxicity; Neurons; Astrocyte; Hippocampal cell culture; Alzheimer's disease (Gray, C.W. (691) 169)

Cortical circuitry
Interneuron; Microcolumn; Symmetric synapse (Del Río, M.R. (690) 133)

Cortical field potential
Human neocortical slice; Excitatory amino acid; *N*-Methyl-D-aspartate; α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid; Extracellular calcium concentration (Lücke, A. (671) 222)

Vocalization; Monkey; Broca's area; Cingulate cortex; Cerebellar hemispherectomy (Gemba, H. (697) 143)

Cortical graft
Neuropeptide; Calcium-binding protein; Immunocytochemistry (Bele, S. (704) 210)

Cortical ischemia
L-Arginine; Cerebral blood flow; Brain metabolite; Infarct volume (He, Z. (699) 208)

Cortical lesion cavity
Neovascularization; Neural transplantation; Scanning electron microscope (Miyoshi, Y. (681) 131)

Cortical neuron
Intracellular pH; Intracellular calcium; BCECF; Fura-2; Glutamate (OuYang, Y.-B. (676) 307)

Felbamate; *N*-Methyl-D-aspartate receptor; Strychnine-insensitive glycine antagonist; Excitotoxicity; Neuroprotection; Calcium (Kanthasamy, A.G. (705) 97)

Corticobasal degeneration
Ballooned neuron; Oxidative stress; Pick disease; Glial inclusion; Neuropil thread (Castellani, R. (696) 268)

Corticospinal neuron
Magnetic stimulation; Cerebellum; Motor cortical excitability; Dentato-thalamo-cortical pathway; Dentate nucleus; Superior cerebellar peduncle (Saito, Y. (694) 200)

Corticosteroid receptor
Hypothalamic-pituitary-adrenal axis; Hybridization, in situ; Dementia (Wetzel, D.M. (679) 72)

Corticosterone
Glucocorticoid; Luteinizing hormone; RU 28362 (Briski, K.P. (670) 66)

Stress; Hypothalamic-pituitary-adrenal axis; Novel environment; Novelty; Sensitization; Context-specific sensitization; Environment-specific sensitization; Rotational behavior; Locomotor activity; Rearing behavior; Rat (Badiani, A. (673) 13)

Corticotropin-releasing factor; Arginine vasopressin; Oxytocin; ACTH (Romero, L.M. (676) 151)

Corticotropin-releasing hormone; Brain cell culture; CRH receptor; Extrahypothalamic; Cyclic AMP; Anterior pituitary; Modulation; Protein kinase C; Dexamethasone; Vasopressin; Glucocorticoid (Kapcala, L.P. (678) 207)

Methandrostenolone; Anabolic steroid; Morris water maze; Hippocampus; Testosterone; Memory (Clark, A.S. (679) 64)

Adrenal steroid; Type I; Type II receptors; Stress; Dynorphin mRNA; *N*-Methyl-D-aspartate receptor; AMPA receptor; Dentate gyrus; Mossy fiber; Stratum lucidum (Watanabe, Y. (680) 217)

Social stress; Corticotropin-releasing hormone; Vasopressin; Desensitization (Bugajski, J. (681) 223)

Dehydration; mRNA; CRH; Paraventricular nucleus; Supraoptic nucleus; Adrenal gland (Watts, A.G. (687) 63)

Hypoxia/ischemia; Degeneration; Seizure; Hypothalamo-pituitary-adrenal axis (Krugers, H.J. (690) 41)

Self-stimulation; Food restriction; Sensitization; Reward; Opioid (Abrahamsen, G.C. (695) 186)

Calbindin-D28k; Adrenalectomy; Dentate gyrus; Degeneration; CA1; Parvalbumin; Calcium (Krugers, H.J. (696) 89)

Herpes simplex virus type 1; Neurotropism; ACTH; Corticotropin releasing factor-41 (Ben-Hur, T. (702) 17)

Interleukin-1β; Adrenalectomy; RU38486; Social behaviour; Body temperature; Mouse (Goujon, E. (702) 173)

Hypothalamic slice; Arginine vasopressin; Calcium (Liu, X. (704) 19)

Kainic acid; Hippocampus; Epileptic activity; RU486; GR-receptor (Talmi, M. (704) 97)

Corticostriatal afferent
Striatum; Fos; Dopamine receptor; Glutamate receptor; Cortex (Liste, I. (700) 1)

Corticotectal projection
Striate cortex; Extrastriate cortex; Visual field representation; Retinotectal projection; Horseradish peroxidase (Amer-Ferrer, G. (695) 283)

Corticotrophin releasing factor
Autonomic nervous system; Cardiovascular regulation; Enkephalin; Heart; Lateral hypothalamic area; Medulla oblongata; Neuropeptide Y; Oxytocin; Paraventricular hypothalamic nucleus; Pseudorabies virus; Raphe nuclei; Serotonin; Somatostatin; Stellate ganglion; Sympathetic nervous system (Jansen, A.S.P. (683) 1)

Corticotropin-like intermediate lobe peptide
Rat; Sleep; Wake; Nucleus raphe dorsalis; Local injection; Vasoactive intestinal polypeptide; *p*-Chlorophenylalanine (El Kafi, B. (686) 150)

Corticotropin-releasing factor
Cocaine withdrawal; Anxiety; Plus maze (Sarnyai, Z. (675) 89)

Amygdala; Anxiety; Brain mince; Development; Maternal stress; Prenatal stress (Cratty, M.S. (675) 297)

Arginine vasopressin; Oxytocin; ACTH; Corticosterone (Romero, L.M. (676) 151)

Suprachiasmatic nucleus; Paraventricular nucleus; Circadian rhythms; Phaseolus vulgaris-leucoagglutinin; Dual immunocytochemistry (Vrang, N. (684) 61)

ACTH; Dexamethasone; IL-1 receptor; Pituitary; Stress (Takao, T. (688) 219)

Nitric oxide synthase; Endotoxin; Hypothalamus; Vasopressin (Lee, S. (705) 136)

Corticotropin releasing factor-41
Herpes simplex virus type 1; Neurotropism; ACTH; Corticosterone (Ben-Hur, T. (702) 17)

Corticotropin releasing factor binding protein
Expression; Neuronal cell; Astrocytic cell (Behan, D.P. (698) 259)

Corticotropin-releasing hormone
Brain cell culture; CRH receptor; Extrahypothalamic; Cyclic AMP; Anterior pituitary; Modulation; Corticosterone; Protein kinase C; Dexamethasone; Vasopressin; Glucocorticoid (Kapcala, L.P. (678) 207)

Social stress; Vasopressin; Corticosterone; Desensitization (Bugajski, J. (681) 223)

Cerebellin; Olivopontocerebellar atrophy; Shy-Drager syndrome; Neuropeptide; Cerebellum; Multiple system atrophy; Radioimmunoassay (Mizuno, Y. (686) 115)

Hypothalamic paraventricular nucleus; Fos-immunoreactivity; Pharmacogenetics; Selective breeding; Stress; Wistar rat (Mulders, W.H.A.M. (689) 61)

Cortisol
Hippocampus; Norepinephrine; Urine analysis; Stress; *Tupaia belangeri* (Fuchs, E. (673) 275)

Costimulatory molecule
Antigen-presenting cell; B7-1; B7-2; Human astrocyte; Human microglia (Satoh, J.-i. (704) 92)

Cotransmission
Tyrosine hydroxylase; Intermediate lobe; Neuroendocrinology; Interaction; Monoamine (Vanhatalo, S. (669) 275)

Dense-cored vesicle; Dopamine; Opiate; Opioid peptide; Substantia nigra (Sesack, S.R. (672) 261)

Colocalization; Neuroendocrinology; False transmitter; Interaction; Superfluous transmitter; Periventriculo-hypophyseal (Vanhatalo, S. (687) 205)

Coturnix japonica
Sexual behavior; Aromatase control; Aromatase synthesis; Preoptic area; Japanese quail; Reproduction (Foidart, A. (701) 267)

Coupled oscillator
Cat brainstem; Ordinary coherence; Partial coherence; Sympathetic nerve discharge; Urethane anesthesia (Zhong, S. (670) 329)

CP 66,713
Cerebral ischemia; Gerbil; Adenosine antagonist; Chlorostyrylxanthine; CGS 15943; DPCPX; Stroke (Phillis, J.W. (705) 79)

CP 93129
Acetylcholine release; Atropine; Fimbria-fornix; Hippocampus; Mecamylamine; Methio-

thepin; 2-methyl-Serotonin; Oxotremorine; Septal graft (Cassel, J.-C. (704) 153)

CP-96,344
Nociception; Antinociception; Substance P; Naloxone; Opioid; Tail-flick test; Capsaicin; Spinal cord; Primary afferent; C-fiber; CP-96,345; CP-99,994 (Yashpal, K. (674) 97)

CP-96,345
Nociception; Antinociception; Substance P; Naloxone; Opioid; Tail-flick test; Capsaicin; Spinal cord; Primary afferent; C-fiber; CP-96,344; CP-99,994 (Yashpal, K. (674) 97)

CP-99,994
Nociception; Antinociception; Substance P; Naloxone; Opioid; Tail-flick test; Capsaicin; Spinal cord; Primary afferent; C-fiber; CP-96,345; CP-96,344 (Yashpal, K. (674) 97)

D-CPP
Presynaptic glutamate receptor; Glutamate release; Kindling; Epileptogenesis; Seizures; (1S,3S)-ACPD; D-CPPene (Attwell, P.J.E. (698) 155)

Seizure; Glutamate; Glycine; 5,7-Dichlorokynurenic acid; (+)HA-966; ACPC; AP7; Dizocilpine; Strychnine (Peterson, S.L. (702) 101)

D-CPPene
Presynaptic glutamate receptor; Glutamate release; Kindling; Epileptogenesis; Seizures; (1S,3S)-ACPD; D-CPP (Attwell, P.J.E. (698) 155)

Cranial nerve
CGRP; Neuropeptide; Plasticity (Thompson, G.C. (683) 140)

Cranial window
Endothelium; Superoxide dismutase; Indomethacin; Hypertension; *N*-Nitro-L-arginine (Riedel, M.W. (671) 21)

Creatine-phosphocreatine
Modafinil; Brain metabolism; Excitatory amino acid; Inositol; ^{1}H-NMR spectroscopy (Piérard, C. (693) 251)

CREB
c-fos; c-*jun*; Krox-24; Kainic acid; Seizure; Hippocampus (Blendy, J.A. (681) 8)

CRF
Social isolation; Stress; Pentobarbital; Hypnotic activity; Noradrenergic system; Aggressive behavior (Ojima, K. (684) 87)

CRH
Dehydration; mRNA; Corticosterone; Paraventricular nucleus; Supraoptic nucleus; Adrenal gland (Watts, A.G. (687) 63)

CRH receptor
Corticotropin-releasing hormone; Brain cell culture; Extrahypothalamic; Cyclic AMP; Anterior pituitary; Modulation; Corticosterone; Protein kinase C; Dexamethasone; Vasopressin; Glucocorticoid (Kapcala, L.P. (678) 207)

Cross-correlation
Medullary inspiratory neuron; Phrenic motoneuron; Rat (Duffin, J. (694) 55)

Cross-correlation analysis
Inhibitory circuit; Neuronal coordination; Species difference; Somatosensory system; Ventrobasal thalamus (Alloway, K.D. (691) 46)

Cross-modality rewiring
Frog; Nerve transplantation; Aberrant synapse; Alternative specificity; Neural plasticity (Scalia, F. (685) 187)

Crustacean
Olfactory receptor neuron; Whole cell patch clamp; Olfaction; Mixture; Interaction; Transduction; Spiny lobster; Binding (Simon, T.W. (678) 213)

Synaptotagmin; Vesicle; Synapse; Neuromuscular junction (Cooper, R.L. (703) 214)

α B-Crystallin
Astrocyte; Potassium; Hypertonicity; Heat-shock protein (Iwaki, T. (673) 47)

CTA
Microdialysis; Dopamine (Mark, G.P. (688) 184)

CTOP
Opioid; Mu-opioid receptor; Ventral tegmental area; Nucleus accumbens; Feeding; Drinking; Locomotor activity; Rat (Badiani, A. (690) 112)

Culture
Freezing technique; Neuron-specific enolase; γ-Aminobutyric acid; Thienyl-phencyclidine; Computer microscope; Principal component analysis (Petite, D. (669) 263)

Vasopressin; Meninges; Hypothalamus; Pituitary; Regeneration; Hypophysectomy (Ishikawa, K. (677) 20)

Purkinje neuron; Cerebellum; Ethanol; Alcohol; ACPD; Quisqualate; Glutamate (Netzeband, J.G. (688) 105)

Serotonin release; Fenfluramine; 3,4-Methylenedioxyamphetamine; *p*-Chloroamphetamine; Raphe; Nimodipine; Conotoxin; Fluoxetine (Wichems, C.H. (695) 10)

Cultured hippocampal neuron
Spermine; Spermidine; Putrescine; Neurite regeneration; Basic fibroblast growth factor (Chu, P.-j. (673) 233)

A-Current
Coeliac-superior mesenteric ganglia; Whole-cell patch-clamp; Perforated patch; M-Current; Ca^{2+}-activated K^+ current; Delayed rectifier K^+ current; 4-Aminopyridine; Tetraethylammonium; Muscarinic agonist (Carrier, G.O. (701) 1)

M-Current
Coeliac-superior mesenteric ganglia; Whole-cell patch-clamp; Perforated patch; A-Current; Ca^{2+}-activated K^+ current; Delayed rectifier K^+ current; 4-Aminopyridine; Tetraethylammonium; Muscarinic agonist (Carrier, G.O. (701) 1)

Current source density
Primary auditory cortex; Monkey; Multiunit activity; Speech; Place of articulation; Tonotopic organization (Steinschneider, M. (674) 147)

Long-term potentiation; Theta-frequency primed burst; APV; Inhibitory interneuron; CA3 (Roth, L.R. (694) 40)

Current–source density analysis
Long-term potentiation; E–S potentiation; Dendritic membrane activation; Hippocampus; Slice; CA1; Rat (Vida, I. (671) 1)

Cutaneous
Ia; Ib; Locomotion (Misiaszek, J.E. (702) 271)

Cutaneous afferent
Ib afferent; Pain; Motor control; Man (Rossi, A. (700) 164)

Cu,Zn superoxide dysmutase (SOD)
Familial amyotrophic lateral sclerosis; Transgenic mice; Motor neuron; Spinal cord; Brainstem; Peripheral nerve (Dal Canto, M.C. (676) 25)

Cyanide
Chemical hypoxia; Protein kinase C; Differentiated PC12 cells; Immunohistochemistry; Western blotting; LDH; Cytotoxicity (Pavlaković, G. (676) 205)

21-Aminosteroid; 2-Methylaminochroman; Iron toxicity; Primary neuronal culture; Dizocilpine; Neuroprotection (Müller, U. (678) 265)

6-Cyano-7-nitroquinoxaline-2,3-dione
Calcium; Dizocilpine; Neurosteroid; Nimodipine; *N*-methyl-D-aspartate; Pregnenolone sulfate; Spermine (Fahey, J.M. (669) 183)

2,3-Dihydroxy-6-nitro-7-sulfamoylbenzo(f)quinoxaline; Kynurenate; Brain slice; Lateral olfactory tract; Excitatory amino acid (Yang, Q.Z. (680) 207)

β-Cyclazocine
N-Methyl-D-aspartate receptor; Neuroprotection; Fura-2; Single-channel recording; Rate constant (Sawyer, D.C. (698) 30)

Cyclic adenosine 3′,5′-monophosphate
Proliferation; Differentiation; Galactocerebroside; Cellular process (Yamada, H. (681) 97)

Cyclic ADP-ribose
Second messenger system; Central nervous system; Immunohistochemistry; Western blotting; Neuron (Mizuguchi, M. (697) 235)

Cyclic AMP
Nerve growth factor; Protooncogene; Calcium; Protein kinase C (Jehan, F. (672) 128)

Adenylyl cyclase; Cocaine; Nucleus accumbens; Sensitization; Locomotor activity; Cyclic AMP-dependent protein kinase (Miserendino, M.J.D. (674) 299)

Benzodiazepine; Dependence; Tolerance; Morphine (Sheu, M.-J. (675) 31)

NGF synthesis; NGF mRNA; Astrocyte; Guanosine; GTP; Neurotrophin; ATP; Adenosine (Middlemiss, P.J. (677) 152)

Corticotropin-releasing hormone; Brain cell culture; CRH receptor; Extrahypothalamic; Anterior pituitary; Modulation; Corticosterone; Protein kinase C; Dexamethasone; Vasopressin; Glucocorticoid (Kapcala, L.P. (678) 207)

β-Endorphin; Cell culture; Hypothalamus; Progesterone; Estrogen (Yang, Z. (678) 251)

Wake–sleep cycle; Anteroventro-medial hypothalamus; Cerebral cortex; Pineal gland; Interscapular brown adipose tissue; Low ambient temperature (Perez, E. (684) 56)

β-Endorphin; Cell culture; Hypothalamus; Glutamate; *N*-Methyl-D-aspartate (Yang, Z. (692) 129)

Adrenergic receptor; Norepinephrine; Isoproterenol; Adenosine; Astrocyte; Cyclic AMP transport; Cerebral cortex; Phosphodiesterase; Astrocyte; Secretion; Transport (Rosenberg, P.A. (692) 227)

Immature rat; Cerebral cortex; Glycogen phosphorylase activity; Homocysteine-induced seizure (Folbergrová, J. (694) 128)

Reticular formation; Fear; Startle; Amygdala (De Lima, T.C.M. (700) 59)

Opioid; Development; Norepinephrine uptake; Tyrosine hydroxylase (Sklair-Tavron, L. (702) 117)

Cyclic AMP-dependent protein kinase
Adenylyl cyclase; Cyclic AMP; Cocaine; Nucleus accumbens; Sensitization; Locomotor activity (Miserendino, M.J.D. (674) 299)

Chemosensory system; Signal transduction; Brain; *Apis mellifera*; Insect (Hildebrandt, H. (679) 281)

Nicotinic acetylcholine receptor channel; Rat muscle; Dissociated muscle fibre; Forskolin (Lorenzon, P. (703) 100)

Cyclic AMP response element binding protein
Nitric oxide; c-*fos*; Phosphorylation; Retinal pigment epithelium (Ohki, K. (696) 140)

Cyclic AMP transport
Adrenergic receptor; Norepinephrine; Isoproterenol; Adenosine; Astrocyte; Cerebral cortex; Cyclic AMP; Phosphodiesterase; Astrocyte; Secretion; Transport (Rosenberg, P.A. (692) 227)

Cyclic GMP
Cerebral blood flow; Cerebral oxygen consumption; Nitrate; Guanylate cyclase; Rat (Lu, X. (669) 35)

Nitric oxide; Ionic mechanism; Increased Na^+ conductance; *Aplysia* neurons (Sawada, M. (670) 248)

Cerebral circulation; Newborn (Devine, J.O. (675) 257)

Astrocyte; Microglia; Cerebellum; Hippocampus; Nitric oxide; Noradrenaline; Glutamate (Agulló, L. (686) 160)

Retinal spreading depression; Nitric oxide; Migraine (Ulmer, H.J. (691) 239)

Nitric oxide synthase; 3,4-Diaminopyridine; Noradrenaline release; Rat hippocampus (Lauth, D. (692) 174)

Rat pinealocyte; Nitric oxide; Ca^{2+}; Phoshodiesterase; Protein kinase C (Spessert, R. (694) 207)

Bilirubin; Cytochrome P_{450}-reductase; Heme oxygenase; Iron; Protoporphyrin (Laitinen, J.T. (694) 246)

Cyclic voltammetry, in vivo
5-Hydroxytryptamine; Dopamine; Uptake transporter; Fluoxetine; Nomifensine (Jackson, B.P. (674) 163)

Cycling
Inhibition; Facilitation; Locomotion; Passive (Misiaszek, J.E. (677) 69)

Cycloheximide
Long-term potentiation; Mouse; Dentate granule cell; Protein synthesis; Anisomycin; Calcium buffering (Namgung, U. (689) 85)

Carbamazepine; Apoptosis; DNA fragmentation; Cerebellar granule cell; *N*-Methyl-D-aspartate; Aurintricarboxylic acid (Gao, X.-M. (703) 63)

(*trans*)-Cyclohexovesamicol
Acetylcholine release; Vesamicol; 4-Aminobenzovesamicol; Synaptic vesicle; Vesicular transport (Leão, R.M. (703) 86)

Cyclo(His-Pro)
Obesity; Zucker rat; Hyperphagia; Dehydroepiandrosterone (Prasad, C. (699) 149)

Cyclooxygenase-2
Lipopolysaccharide; Fever; Brain; Hybridization, in situ; Prostaglandin (Cao, C. (697) 187)

***N*^{6}-Cyclopentyladenosine**
Potassium conductance; Fourier analysis; Delta power; EEG; Sleep homeostasis; Sleep function (Benington, J.H. (692) 79)

Cyclopiazonic acid
Ca^{2+} entry blocker; Calmodulin antagonist; Intracellular Ca^{2+} store; NG108-15; Capacitative Ca^{2+} entry (Lo, T.-M. (704) 10)

Cynomolgus monkey
Basal ganglia; Striatum; Striatopallidal projection; Striatonigral projection; Single-cell labeling study; *Macaca fascicularis* (Parent, A. (698) 280)

Cysteine protease inhibitor
Choroid plexus; Cerebrospinal fluid; Delayed neuronal death; γ-Trace protein; CA1 (Palm, D.E. (691) 1)

Cystometrogram
Glutamatergic transmission; Urethane; Decerebrate; Urinary bladder; External urethral sphincter (Yoshiyama, M. (691) 185)

Cytochrome a_3^{2+}
Carbon monoxide; Carotid body; Chemoreceptor excitation; O_2 consumption; PO_2 microelectrode (Lahiri, S. (684) 194)

Cytochrome *aa3*
Electroconvulsive therapy; Near-infrared spectrophotometry; Transcranial Doppler ultrasonography (Saito, S. (673) 93)

Cytochrome oxidase
Basal ganglia; *N*-Methyl-D-aspartate; Subthalamic nucleus; Succinate dehydrogenase (Blandini, F. (669) 59)

Cytochrome P_{450}-reductase
Bilirubin; Cyclic GMP; Heme oxygenase; Iron; Protoporphyrin (Laitinen, J.T. (694) 246)

Cytochrome P450scc
Localization; Immunohistochemistry; Immunoblotting; Brain; Japanese quail (Usui, M. (678) 10)

Cytokine
Astrogliosis; Glial fibrillary acidic protein; Ciliary neurotrophic factor; Tumor necrosis factor-α; ED1; MHCII; Microglia (Kahn, M.A. (685) 55)

B-Lymphocyte; Cytotoxic T-lymphocyte; Mouse; Morphine abstinence; Morphine tolerance; Naltrexone; Natural killer cell; Opioid receptors; T-Lymphocyte (Bhargava, H.N. (690) 121)

Triangular septal nucleus; Septofimbrial nucleus; Habenular nucleus; Interpeduncular nucleus; Autoradiography; Blood–brain barrier; Capillary; Choroid plexus (Maness, L.M. (700) 83)

Cytoplasmic dynein
Kinesin; Ischemia; Microtubule-associated protein; Microtubule-based motor; Mitochondrion (Aoki, M. (669) 189)

Cytoskeletal pro CANP
Diisopropyl phosphorofluoridate; Hen; Intermediate filament proteins; OPIDN (Gupta, R.P. (677) 162)

Cytoskeletal protein
Neurofilament; CaM kinase II; Phosphorylation; Acrylamide; Glycidamide (Reagan, K.E. (671) 12)

Cytoskeleton
MAP2; Head injury; Fluid-percussion; Neuropathology; Kynurenate (Hicks, R.R. (678) 151)

Tau; Focal cerebral ischaemia; Rat; Axon; Glia (Dewar, D. (684) 70)

Phenytoin; MAP2; Mouse brain; Cerebellum; Cell culture (Kempermann, G. (687) 194)

Depolarization; Neurofilament protein; Potassium; Trauma; Ischemia; Epilepsy (Whitson, J.S. (694) 213)

Adducin; Cell membrane; Cerebellum; Glia; Hippocampus; Monoclonal antibody; Synapse (Seidel, B. (700) 13)

Microtubule-associated protein; Plasticity; Monocular deprivation; Visual cortex; Oc1; Development, immunohistochemistry (Werner, D. (701) 55)

Cytosolic Ca^{2+}
Regulatory volume decrease; K^+ channel blocker; Cl^- channel blocker; Ouabain; Bumetanide; Stretch-activated channel blocker (Lippmann, B.J. (686) 29)

Cytotoxicity
Chemical hypoxia; Protein kinase C; Differentiated PC12 cells; Cyanide; Immunohistochemistry; Western blotting; LDH (Pavlaković, G. (676) 205)

Cytotoxic T-lymphocyte
B-Lymphocyte; Cytokine; Mouse; Morphine abstinence; Morphine tolerance; Naltrexone; Natural killer cell; Opioid receptors; T-Lymphocyte (Bhargava, H.N. (690) 121)

D

δ
Ventral tegmental area; Opioid; DAMGO; DPDPE; μ; Feeding (Noel, M.B. (673) 304)

DA
Tetanus toxin; 5-HT; Microdialysis (Britton, P. (673) 331)

PACAP; Microinjection; Lateral hypothalamus; Sulpride; D_2 receptor; Drinking; Osmolarity; Blood pressure (Puig de Parada, M. (696) 254)

Dalargin
Nanoparticle; Leu-enkephalin analog; Polysorbate 80; Blood–brain barrier; Peptide delivery to the brain (Kreuter, J. (674) 171)

DAMGO
Mu-opioid; Kappa-opioid; Delta-opioid; U-50,488H; DPDPE; Amphetamine; VTA; Mesoaccumbens dopaminergic system; Feeding; Drinking; Hyperdipsia; Gnawing; Activity; VTA (Badiani, A. (670) 264)

Ventral tegmental area; Opioid; DPDPE; μ; δ; Feeding (Noel, M.B. (673) 304)

Desensitization; Tolerance; Dentate gyrus; Opioid; Mu receptor; [D-Ala^2,NMe-Phe^4,Gly-ol]-Enkephalin; Interneuron (Mayer, J.H. (686) 134)

μ-Opioid receptor agonist; Local cerebral glucose utilization; Brain site; Limbic epilepsy; Memory; Mood; Antinociception (Fabian, I. (697) 205)

4-DAMP
Intracerebroventricular; Mean arterial pressure; Heart rate; Pirenzepine; Methoctramine; Atropine; Anesthesia (Ally, A. (677) 268)

Acetylcholine; AF-DX 116; Brain slice; Carbachol; Estrogen; M3; McN-A-343; Muscarinic receptor subtype; Oxotremorine-M; *p*-F-HHSiD; Pirenzepine; Single-unit activity (Kow, L.-M. (694) 29)

Dantrolene
HIV-1; gp120; Calcium; Synaptosome; Glutamate; Calcium channel blocker (Nath, A. (678) 200)

140-kDa polypeptide
Active zone; Presynaptic terminal (Stieber, A. (700) 261)

DA rat
Handling; Gentling; Neonatal period; Maternal separation; Stress; Experimental allergic encephalomyelitis (Laban, O. (676) 133)

Dark neuron
Direct current; Rat; Brain; Sensorimotor cortex; ^{45}Ca autoradiography; Anodal polarization (Islam, N. (684) 206)

Darting behavior
N-Methyl-D-aspartate receptor; Polyamine; Neuromodulator; Rat prefrontal cortex; [^{3}H]MK-801; Radioligand binding (Savelli, J.E. (682) 41)

DA turnover
Conditioned place preference; Morphine; Zolantidine; L-Histidine; α-Fluoromethylhistidine (α-FMH); SCH 23390 (Suzuki, T. (675) 195)

D_2 autoreceptor
(±)-1-(2,5-Dimethoxy-4-iodophenyl)-aminopropane; 5-HT_2 receptor; Amphetamine; Apomorphine; Dopamine; Microdialysis; Rat (Ichikawa, J. (698) 204)

Shell; Core; Rostral pole; Neuronal uptake; Fast cyclic voltammetry; Dopamine (Wieczorek, W. (699) 171)

DBA
Microgyria; Discrimination learning; Ectopia; Lashley learning; Neocortex; Brain damage (Rosen, G.D. (681) 177)

DBA/2 mouse
Imipenem; Excitatory amino acid antagonist; Anticonvulsant drug; Epilepsy seizure; Audiogenic seizure (De Sarro, G. (671) 131)

D1 Dopamine receptor
D2 Dopamine receptor; Pregnancy; Brain (Bakowska, J.C. (703) 191)

D2 Dopamine receptor
D1 Dopamine receptor; Pregnancy; Brain (Bakowska, J.C. (703) 191)

D_3 dopamine receptor
N-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; [^{3}H]7-OH-DPAT; [^{3}H]Spiperone; Nucleus accumbens; Olfactory tubercle; Striatum; Rat brain (Levant, B. (698) 146)

D_4-dopamine receptor
Schizophrenia; Guanine nucleotide; Gpp(NH)p; Human brain; [^{3}H]Raclopride; [^{3}H]YM-09151–2; Major depression (Sumiyoshi, T. (681) 109)

Deactivation
Muscarinic receptor; Cation channel; Phosphorylation; Dephosphorylation; AlF complex; G protein; Chromaffin cell (Inoue, M. (687) 199)

Deafferentation
c-*fos*; Subthalamic nucleus; Substantia nigra pars reticulata; Non-NMDA receptor; Transneuronal cell death (Saji, M. (703) 165)

Deafferentation pain
Dorsal rhizotomy; Immunoreactive dynorphin; Spinal cord; Cerebral area; Deafferentation syndrome; Neuroplasticity; Rat (Candeletti, S. (670) 289)

Deafferentation syndrome
Dorsal rhizotomy; Immunoreactive dynorphin; Spinal cord; Cerebral area; Deafferentation pain; Neuroplasticity; Rat (Candeletti, S. (670) 289)

Decentralization
SCG; GAP-43; p38 (synaptophysin); Immunohistochemistry; Confocal laser scanning microscopy (Hou, X.-E. (679) 49)

Decerebrate
Glutamatergic transmission; Urethane; Urinary bladder; External urethral sphincter; Cystometrogram (Yoshiyama, M. (691) 185)

Decerebration
Brown adipose tissue; Non-shivering thermogenesis; Thermoregulation; Neonate; Hypothalamus (Blumberg, M.S. (699) 214)

Decompensation
Vestibular compensation; Neural plasticity; Nystagmus; *N*-Methyl-D-aspartate receptor; Immunohistochemistry (Kitahara, T. (700) 182)

Deep pineal
Intergeniculate leaflet; Pineal gland; *N*-Acetylserotonin; Lamina intercalaris; Circadian rhythm (Cipolla-Neto, J. (691) 133)

Deer mouse
GnRH; Immunocytochemistry; Light; Reproduction; Phenotypic variation (Korytko, A.I. (685) 135)

Defecation
Micturition; Sexual reflex; Bladder (Song, L. (675) 165)

Defense
Brain stimulation; Aversion; Kainate; $GABA_A$ antagonist; c-*fos* Proto-oncogene; Medial hypothalamus; Limbic system (Silveira, M.C.L. (674) 265)

Degeneration
Axotomy; Survival; Neurotrophin-3; Ciliary neurotrophic factor (Weibel, D. (679) 249)

Nerve regeneration; Macrophage; Schwann cell; Nerve graft; Myelin; Microcirculation (Dahlin, L.B. (679) 274)

Serotonin; $Serotonin_2$ receptor; Calcium; Second messenger; Release (Kramer, H.K. (680) 1)

Hypoxia/ischemia; Corticosterone; Seizure; Hypothalamo-pituitary-adrenal axis (Krugers, H.J. (690) 41)

Calbindin-D28k; Corticosterone; Adrenalectomy; Dentate gyrus; CA1; Parvalbumin; Calcium (Krugers, H.J. (696) 89)

Dehydration
Vasopressin; mRNA; Salt-loading; Sex difference (Dai, W.-J. (676) 178)

Fos-like immunoreactivity; Polydipsia; Hypothalamus; Circumventricular organ; Water balance; Inbred mouse (Ueta, Y. (677) 221)

Fos immunoreactivity; Ethanol; Hypothalamus; Amygdala; Edinger–Westphal nucleus; Parabrachial nucleus; Vasopressin (Chang, S.L. (679) 89)

mRNA; CRH; Corticosterone; Paraventricular nucleus; Supraoptic nucleus; Adrenal gland (Watts, A.G. (687) 63)

Dehydroascorbate
GSH; Astrocyte; Ascorbate; Brain (O'Connor, E. (680) 157)

Dehydroepiandrosterone
Obesity; Zucker rat; Hyperphagia; Cyclo(His-Pro) (Prasad, C. (699) 149)

Dehydroepiandrosterone sulfate
Neurosteroid; Long-term potentiation; Ethanol; *N*-Methyl-D-amphetamine; $GABA_A$; AMPA (Randall, R.D. (701) 238)

Delayed cell death
Transient forebrain ischemia; Heat-shock protein; Parvalbumin; Gerbil (Ferrer, I. (692) 41)

Delayed-matching-to-position
Dopamine; Acetylcholine; Prefrontal cortex; Rat; Short-term memory (Broersen, L.M. (674) 221)

Delayed neuronal death
DNA fragmentation; Apoptosis; Cerebral ischemia; Gerbil; Hippocampus (Iwai, T. (671) 305)

Ischemia; Pentobarbital; Acetylcholine; Brain dialysis; Choline acetyltransferase; Hippocampus; Gerbil (Ishimaru, H. (673) 112)

Cysteine protease inhibitor; Choroid plexus; Cerebrospinal fluid; γ-Trace protein; CA1 (Palm, D.E. (691) 1)

Delayed neuronal injury
N-Methyl-D-aspartate; Glutamate; CA1; Hippocampus; Slice (Wallis, R.A. (674) 75)

Delayed rectifier K^+ current
Coeliac-superior mesenteric ganglia; Whole-cell patch-clamp; Perforated patch; M-Current; A-Current; Ca^{2+}-activated K^+ current; 4-Aminopyridine; Tetraethylammonium; Muscarinic agonist (Carrier, G.O. (701) 1)

Delta-opioid
Mu-opioid; Kappa-opioid; DAMGO; U-50,488H; DPDPE; Amphetamine; VTA; Mesoaccumbens dopaminergic system; Feeding; Drinking; Hyperdipsia; Gnawing; Activity; VTA (Badiani, A. (670) 264)

Delta power
Potassium conductance; Fourier analysis; N^6-Cyclopentyladenosine; EEG; Sleep homeostasis; Sleep function (Benington, J.H. (692) 79)

Delta receptor
Opioid; Feeding; Dietary obesity; Mu receptor; Kappa receptor; Rat (Cole, J.L. (678) 168)

Dementia
Hypothalamic-pituitary-adrenal axis; Hybridization, in situ; Corticosteroid receptor (Wetzel, D.M. (679) 72)

Dementia of the Alzheimer type
D-Serine; Post-mortem human central nervous system; Prefrontal cortex; Superior parietal cortex; Cerebellum; Spinal cord; Schizophrenia (Kumashiro, S. (681) 117)

Demyelination
Blood–brain barrier; Osmolality; Magnetic resonance imaging (Adler, S. (679) 135)

Dendrite
Colchicine; Lysosome; Microtubule; Neuronal transport; Hypoglossal nucleus; Fluorescent microsphere (Beske, O. (669) 125)

Second messenger; Pyramidal neuron; Serine/threonine protein phosphatase; Immunolocalisation; Spine (Lowenstein, P.R. (676) 80)

Hippocampus; Pyramidal neuron; Afterhyperpolarization; Calcium-dependent potassium current; Carbachol (Andreasen, M. (698) 193)

Dendritic arborization
Association cortex; Development; Morphometry; Basal dendrite; Cerebral cortex; Golgi–Cox; Infant (Koenderink, M.J.Th. (678) 233)

Dendritic growth
Tissue culture; Hippocampal neuron; Mathematical model (Uemura, E. (671) 187)

Dendritic membrane activation
Long-term potentiation; E–S potentiation; Current–source density analysis; Hippocampus; Slice; CA1; Rat (Vida, I. (671) 1)

Dendritic spine
Chronic restraint stress; Excrescence; Hippocampus (Sunanda, (694) 312)

Cortex; Nitric oxide; Non-pyramidal cell; γ-Aminobutyric acid (Gabbott, P.L.A. (698) 253)

Denervation
Glutamate; Amino acids; Baroreceptor reflex; Nucleus tractus solitarii; Nodose ganglion; Blood pressure (Colombari, E. (677) 110)

De novo synthesis
Synapse; Memory; Chicks (Sojka, M. (684) 209)

Dense-cored vesicle
Cotransmission; Dopamine; Opiate; Opioid peptide; Substantia nigra (Sesack, S.R. (672) 261)

Dental nerve
Development; Nerve injury; TrkB; Neurotrophin; Immunocytochemistry (Foster, E. (686) 123)

Dentate granule cell
Long-term potentiation; Mouse; Protein synthesis; Cycloheximide; Anisomycin; Calcium buffering (Namgung, U. (689) 85)

Dentate gyrus
Tau; Synaptophysin; Mitogen-activated protein; Phosphorylation; CA1 (Torack, R.M. (669) 135)

Kindling; Spontaneous seizure; Epilepsy; Perforant path; Amygdala (Milgram, N.W. (670) 112)

In vivo; Hippocampus; Feedback inhibition; Feedforward inhibition (Burdette, L.J. (680) 53)

In vivo; Hippocampus; Paired pulse inhibition (Burdette, L.J. (680) 63)

Adrenal steroid; Corticosterone; Type I; Type II receptors; Stress; Dynorphin mRNA; *N*-Methyl-D-aspartate receptor; AMPA receptor; Mossy fiber; Stratum lucidum (Watanabe, Y. (680) 217)

Hippocampus; Adrenalectomy; Cell death; Apoptosis; Dexamethasone (Sloviter, R.S. (682) 227)

Excitatory amino acid; Glutamate receptor; Immunohistochemistry; Ammon's horn (Blümcke, I. (682) 239)

Desensitization; Tolerance; Opioid; Mu receptor; [D-Ala^2,NMe-Phe^4,Gly-ol]-Enkephalin; DAMGO; Interneuron (Mayer, J.H. (686) 134)

Long-term potentiation; Opioid; $GABA_A$ receptor; Disinhibition (Xie, C.W. (688) 56)

Cannabinoid; Synaptic potential; Paired-pulse facilitation; WIN 55,212-2; Perforant path (Kirby, M.T. (688) 114)

Rat; Olfaction; Hippocampus; Fast wave; Evoked potential; Kainic acid; Colchicine (Heale, V.R. (690) 157)

Excitability; CA1 pyramidal neuron; Inhibition; TPEN (Gordey, M. (691) 125)

Calbindin-D28k; Corticosterone; Adrenalectomy; Degeneration; CA1; Parvalbumin; Calcium (Krugers, H.J. (696) 89)

GAD; Immunocytochemistry; WGA-gold; Retrograde labeling; CA1; Rat (Qiu, K. (702) 287)

Dentate nucleus
Magnetic stimulation; Cerebellum; Motor cortical excitability; Corticospinal neuron; Dentatothalamo-cortical pathway; Superior cerebellar peduncle (Saito, Y. (694) 200)

Dentato-thalamo-cortical pathway
Magnetic stimulation; Cerebellum; Motor cortical excitability; Corticospinal neuron; Dentate nucleus; Superior cerebellar peduncle (Saito, Y. (694) 200)

Deoxycoformycin
Adenosine; *N*-Methyl-D-aspartate; Dilazep; Focused microwave sacrifice; Striatum; Microinjection (Delaney, S.M. (702) 72)

2-Deoxy-D-[^{14}C]glucose
Pain; Analgesia; Rat; Glucose; Brain (Gescuk, B.D. (701) 279)

2-Deoxy-D-glucose
Apolipoprotein A-IV; Gastric ulceration; Central nervous system; Indomethacin (Okumura, T. (673) 153)

Central nervous system; Gastric emptying; Thyrotropin-releasing hormone (TRH); Vagotomy; Pancreatic polypeptide (Okumura, T. (674) 137)

Area postrema; Estrous cycle; Glucoprivation; Metabolic fuel; Nucleus of the solitary tract (Schneider, J.E. (698) 107)

Deoxyglucose
Brain; Arachidonate; Docosahexaenoate; Palmitate; Quantitative autoradiography; Visual system; Orbital enucleation; Rat; Fatty acid; Lipid; Phospholipid; Glucose; Vision; Neuroplasticity (Wakabayashi, S. (679) 110)

2-Deoxyglucose
Hypoxia/hypoglycemia; Ethanol; Chronic treatment; Withdrawal syndrome; Tolerance (Shibata, S. (673) 320)

Songbird; Auditory learning; Attention; Habituation; Caudal auditory telencephalon (Scharmann, M.G. (682) 83)

Neural network; Structural equation modeling; Multimodal interaction; Pavlovian conditioning; Auditory learning; Path analysis; Rat (McIntosh, A.R. (683) 228)

Development; Egr-1; Immediate–early gene; Immunohistochemistry; Learning; Odor exposure; Olfactory preference; Transcription factor (Johnson, B.A. (699) 192)

Ring dove; Autoradiography; Prolactin; Incubation (Lea, R.W. (700) 129)

Inferior colliculus; Cortex; Seizure; c-Fos (McCown, T.J. (701) 117)

[^{14}C]Deoxyglucose
Striatum; Caudate-putamen; Motor cortex; Forelimb; Hindlimb (Brown, L.L. (686) 207)

Dependence
N-Methyl-D-aspartate; Morphine; MK-801; Haloperidol; Withdrawal (Kreeger, J.S. (672) 83)

Benzodiazepine; Tolerance; Cyclic AMP; Morphine (Sheu, M.-J. (675) 31)

Dynorphin; Enkephalin; Morphine; Naltrexone; Striatum; Caudate-putamen; Nucleus accumbens-olfactory tubercle; Tolerance (Trujillo, K.A. (698) 69)

Dephosphorylation
Muscarinic receptor; Cation channel; Phosphorylation; Deactivation; AlF complex; G protein; Chromaffin cell (Inoue, M. (687) 199)

Depolarization
Thiopental; Halothane; Isoflurane; Synaptosome; γ-Aminobutyric acid release; Calcium channel (Lecharny, J.-B. (670) 308)

Interleukin-6; Interleukin-1; Differentiation; Fura-2; Glutamate; Caffeine; Brain (Holliday, J. (673) 141)

Neurotoxicity; Glutamate; *N*-Methyl-D-aspartate; Hippocampus; Ca^{2+}; Cl^- (Takahashi, M. (675) 249)

Sympathoadrenal system; Neuropeptide Y; Enkephalin; Somatostatin; Plasticity (Maynard-Salgado, G. (676) 268)

Neurofilament protein; Potassium; Cytoskeleton; Trauma; Ischemia; Epilepsy (Whitson, J.S. (694) 213)

Glial cell; K^+ concentration; Population spike; Schaffer collateral; Synaptic transmission (Leung, L.S. (697) 262)

Depolarization block
Dopamine neuron; Ethanol; Withdrawal; Anesthesia (Diana, M. (682) 29)

Deprenyl
MPTP; MPP^+; Neurotoxicity; Dopamine; Body temperature; Heat shock protein (Freyaldenhoven, T.E. (688) 161)

Depression
Suicide; *N*-Methyl-D-aspartate receptor; Glycine; Glutamate; Frontal cortex; Human (Nowak, G. (675) 157)

Suicide; μ-Opioid receptor; [^{3}H]Tyr-D-Ala-Gly-*N*-methyl-Phe-Gly-ol; Human brain; Aging (Gabilondo, A.M. (682) 245)

Magnetic stimulation; Electroconvulsive shock; Apomorphine-induced stereotypy; Swim test; Seizure inhibition (Fleischmann, A. (699) 130)

Descending inhibition
Single cell recording; Thermal nociception; Microiontophoresis; Monoamine; α-Adrenoreceptor; Caudal trigeminal nucleus; Medullary dorsal horn (Cahusac, P.M.B. (700) 70)

Descending modulation
Thalamic nucleus submedius; Ventrolateral orbital cortex; Periaqueductal gray; Tail flick reflex; Rat (Zhang, Y.-Q. (696) 205)

Descending projection
Nucleus of the optic tract; Biocytin; Anterograde tracer; Monkey (Kato, I. (705) 109)

Descending serotonergic pathway
Spinal cord; Serotonin; 5-HT_{1A} and NMDA receptor; 8-OH-DPAT; AP-5; Sleep; EEG power spectrum; Rat (Bjørkum, A.A. (692) 251)

Desensitization
Microdialysis; Noradrenaline; Paraventricular nucleus; Restraint; Tail-pinch; Stress; Adaptation (Shibasaki, T. (670) 169)

Social stress; Corticotropin-releasing hormone; Vasopressin; Corticosterone (Bugajski, J. (681) 223)

Axoplasmic transport; Adrenaline; Acetylcholine; Superior cervical ganglion; Organelle motion; Axonal transport control (Kawakami, T. (683) 88)

Tolerance; Dentate gyrus; Opioid; Mu receptor; [D-Ala^2,NMe-Phe^4,Gly-ol]-Enkephalin; DAMGO; Interneuron (Mayer, J.H. (686) 134)

Morphine; Opiate withdrawal; Locus coeruleus; Glutamate; Metabotropic receptor; Protein kinase C; Protein phosphatase (Kogan, J.H. (689) 111)

Desipramine
Glucocorticoid receptor mRNA; Hippocampus; DSP4 lesion; Fluoxetine (Rossby, S.P. (687) 79)

α-1 Adrenergic receptor; Amygdala; Antidepressant drug; Norepinephrine; REM sleep (Ross, R.J. (701) 129)

Desmethyl ibogaine
Ibogaine; Noribogaine; Opioid receptor (Pearl, S.M. (675) 342)

Development
Epidermal growth factor; Transforming growth factor-α; Nervous system; Subventricular zone; Cerebellum; Hybridization, in situ (Seroogy, K.B. (670) 157)

Undernutrition; Myelin; Pyramidal tract; Spinal cord; D-wave; I-wave (Quirk, G.J. (670) 277)

Apoptosis; Cell death; Olfactory bulb; Olfaction; Plasticity; Sensory deprivation (Najbauer, J. (674) 245)

Chronic hypoxia; Brain regulation; Glucose transporter; Glyceraldehyde 3-phosphate dehydrogenase; mRNA (Xia, Y. (675) 224)

Amygdala; Anxiety; Brain mince; Corticotropin-releasing factor; Maternal stress; Prenatal stress (Cratty, M.S. (675) 297)

Hippocampus; Neurofilament; Tissue culture; Neural grafting; Immunocytochemistry (Shetty, A.K. (676) 293)

Retinal pigment epithelium; Transdifferentiation; Growth factor; bFGF; Tissue culture; Neural retina (Zhao, S. (677) 300)

Serotonin receptor; Phosphoinositide; Hippocampus (Ike, J. (678) 49)

Association cortex; Morphometry; Basal dendrite; Dendritic arborization; Cerebral cortex; Golgi–Cox; Infant (Koenderink, M.J.Th. (678) 233)

Visual deprivation; Adult glia; Oc1; Plasticity (Hawrylak, N. (683) 187)

Vomeronasal organ; Olfactory system; Chemosensory; Neurogenesis; Precursor cell; Nestin (Osada, T. (683) 254)

Dental nerve; Nerve injury; TrkB; Neurotrophin; Immunocytochemistry (Foster, E. (686) 123)

Endorphin; Methionine-enkephalin; Respiration; Hypoxia; Microdialysis; Newborn; Swine (Yan, S. (687) 217)

Newborn; Brain slice; Ornithine decarboxylase; Hypoxia/ischemia (Packianathan, S. (688) 61)

γ-Aminobutyric acid; Cocaine; Cortex; Limbic; Anterior cingulate (Wang, X.-H. (689) 32)

Neuronatin; Brain; Gene; Neuroepithelium; Proliferation; Commitment; Differentiation; Migration (Joseph, R. (690) 92)

Cerebral cell volume regulation; Hypernatremia; Organic osmolyte; Taurine (Trachtman, H. (693) 155)

Adrenergic receptor; Cardiac adenylyl cyclase; Heart; β-Adrenoceptor signaling; Heterologous sensitization/desensitization of adenylyl cyclase; Isoproterenol (Giannuzzi, C.E. (694) 271)

N-Methyl-D-aspartate antagonist; Epilepsy; Schizophrenia; Sexual maturation (Sircar, R. (694) 318)

Retinal ganglion cell; Nitric oxide; Glutamate; Chondroitin sulfate proteoglycan (Nichol, K.A. (697) 1)

2-Deoxyglucose; Egr-1; Immediate–early gene; Immunohistochemistry; Learning; Odor exposure; Olfactory preference; Transcription factor (Johnson, B.A. (699) 192)

N-Methyl-D-aspartate; γ-Aminobutyric acid; Glutamate; Cerebral cortex; Rat; Evoked potential; Voltage clamp (Metherate, R. (699) 221)

Ganglioside; Immunohistochemistry; Monoclonal antibody; Rat brain; Cerebellum (Kotani, M. (700) 40)

Opioid; Cyclic AMP; Norepinephrine uptake; Tyrosine hydroxylase (Sklair-Tavron, L. (702) 117)

Barrel; Thalamic axon; AChE (Bennett-Clarke, C.A. (702) 255)

Spontaneous activity; Cochlea; Chicken; Hearing; Basilar papilla; Rhythmic; Auditory nerve (Lippe, W.R. (703) 205)

Neurotrophin receptor; Retina; Ganglion cell layer; Inner plexiform layer; Inner nuclear layer; Hybridization, in situ (Ugolini, G. (704) 121)

NR-1; c-*jun*; mRNA; Nerve crush; Glutamate receptor; Axotomy (Hay, C. (704) 145)

Muscarinic receptor; Receptor binding; Circling training; Plasticity; Rat striatum (Ibarra, G.R. (705) 39)

Developmental alteration
Mouse; 5-Azacytidine; Brain damage; Hyperactivity; Parental behavior; Naive female; Experience effect (Londei, T. (677) 61)

Development, immunohistochemistry
Microtubule-associated protein; Plasticity; Monocular deprivation; Visual cortex; Cytoskeleton; Oc1 (Werner, D. (701) 55)

Dexamethasone
Corticotropin-releasing hormone; Brain cell culture; CRH receptor; Extrahypothalamic; Cyclic AMP; Anterior pituitary; Modulation; Corticosterone; Protein kinase C; Vasopressin; Glucocorticoid (Kapcala, L.P. (678) 207)

Hippocampus; Dentate gyrus; Adrenalectomy; Cell death; Apoptosis (Sloviter, R.S. (682) 227)

ACTH; Corticotropin releasing factor; IL-1 receptor; Pituitary; Stress (Takao, T. (688) 219)

Brain; Endothelin B receptor mRNA; Endothelin mRNA; Down-regulation; Rat (Shibata, K. (692) 71)

Dexmedetomidine
Muscle rigidity; Methylnaloxonium; Ketanserin; α Adrenergic receptor; Alfentanil; Electromyography; ST91 (Weinger, M.B. (669) 10)

Atipamezole; Epilepsy; Hippocampus; Kainic acid; Neuronal damage; Status epilepticus (Halonen, T. (693) 217)

Dextran amine
Parafascicular nucleus; Thalamus; Raphe system; Biocytin; Motor control; Rat (Marini, G. (690) 177)

Dextrorphan
Morphine antinociception; Spinal rat; Tail flick (Advokat, C. (699) 157)

2-DG
Photoperiod; Sexual maturation; Testosterone; Brain metabolism; Sensory system; Quail (Teruyama, R. (697) 169)

Diabetes
Antioxidant; Blood–brain barrier; Peroxidation (Mooradian, A.D. (671) 164)

Dynorphin; Streptozotocin; Feeding (Berman, Y. (685) 129)

Diabetes mellitus
Experimental; Rat; Streptozocin; Hypothalamus; Somatotropin-releasing hormone; Somatostatin (Leidy, Jr., J.W. (681) 84)

Diabetic neuropathy
Nerve injury; Nerve compression (Zochodne, D.W. (698) 130)

Nerve regeneration; Polyol pathway; Diabetic rat (Love, A. (703) 105)

Diabetic rat
Nerve regeneration; Diabetic neuropathy; Polyol pathway (Love, A. (703) 105)

Diacylglycerol
Brain injury; Fluid percussion; Phosphatidylinositol bisphosphate; Free fatty acid; Arachidonic acid (Dhillon, H.S. (698) 100)

Diagonal band of Broca
Septum; Basal forebrain; Monoamine; Electron microscopy; Learning and memory; Alzheimer's disease (Milner, T.A. (670) 121)

Interleukin-1β; Preoptic area; Ventromedial hypothalamus; Hyperalgesia; Analgesia; Prostaglandin; α-Melanocyte stimulating hormone; Pain (Oka, T. (700) 271)

3,4-Diaminopyridine
Nitric oxide synthase; Cyclic GMP; Noradrenaline release; Rat hippocampus (Lauth, D. (692) 174)

Diazepam
Peripheral benzodiazepine receptor; Growth factor; Basic fibroblast growth factor; Astrocyte; Proliferation; DNA synthesis (Neary, J.T. (675) 27)

Flumazenil; Lorazepam; Interaction; Hexobarbital anesthesia threshold; Electroencephalographic threshold technique (Korkmaz, S. (676) 371)

State-dependent learning; Ethanol; Muscimol; Benzodiazepine/$GABA_A$ receptor complex; Rat (Nakagawa, Y. (686) 70)

Dibutyryl-cAMP
Liposome; Phenytoin; Amygdala; Status epilepticus; Horseradish peroxidase; Blood-brain barrier (Mori, N. (703) 184)

Dibutyryl cyclic AMP
Guanylate cyclase; Ultracytochemistry; Natriuretic peptides; Rat C6 glioma; Retinoic acid (Sorci, G. (683) 51)

2,7-Dichlorofluorescin
Alzheimer's disease; Amylin; β2-Microglobulin; Calcium; Fura-2; Hippocampus; Prion protein; Vitamin E (Mattson, M.P. (676) 219)

5,7-Dichlorokynurenic acid
Seizure; Glutamate; Glycine; (+)HA-966; ACPC; D-CPP; AP7; Dizocilpine; Strychnine (Peterson, S.L. (702) 101)

Dichotomizing axon
Primary afferent fibre; Nonmyelinated nerve fibre (McCarthy, P.W. (704) 79)

Diencephalic amnesia
Acetylcholine; High affinity choline uptake; Hippocampus; Cortex (Béracochéa, D.J. (670) 53)

Diencephalon
REM sleep; Auditory stimulation; Brainstem; c-fos (Merchant-Nancy, H. (681) 15)

Anterior pretectal nucleus; Pretectum; Mesencephalon; Thalamus; Antinociception; *Phaseolus vulgaris* leucoagglutinin (Terenzi, M.G. (701) 183)

Diet
Rat; Protein; Brain; Hypothalamus; Retina; Tyrosine; Dopamine; Catecholamine; Appetite (Fernstrom, M.H. (672) 97)

Dietary obesity
Opioid; Feeding; Mu receptor; Delta receptor; Kappa receptor; Rat (Cole, J.L. (678) 168)

Dietary oil
Animal model; Senescence-accelerated mouse; α-Linolenic acid; Linoleic acid; Sidman-active avoidance; Discrimination learning (Umezawa, M. (669) 225)

Diethyldithiocarbamate
Glutamate; *N*-Methyl-D-aspartate receptor; Dizocilpine; Mesencephalic cell; Dopamine uptake (Vaglini, F. (674) 127)

Differential localization
G protein; Accessory olfactory bulb; Opossum; *Monodelphis domestica*; Vomeronasal organ (Halpern, M. (677) 157)

Differentiated PC12 cells
Chemical hypoxia; Protein kinase C; Cyanide; Immunohistochemistry; Western blotting; LDH; Cytotoxicity (Pavlaković, G. (676) 205)

Differentiation
Interleukin-6; Interleukin-1; Fura-2; Glutamate; Caffeine; Depolarization; Brain (Holliday, J. (673) 141)

Amyloid precursor protein; Alternative splicing; P19; Embryonal carcinoma; ASF/SF2; U2AF (Tsukahara, T. (679) 178)

Dopamine; Growth factor; Tyrosine hydroxylase; Tissue culture; Gene activation (Du, X. (680) 229)

Cyclic adenosine 3′,5′-monophosphate; Proliferation; Galactocerebroside; Cellular process (Yamada, H. (681) 97)

Neuronatin; Development; Brain; Gene; Neuroepithelium; Proliferation; Commitment; Migration (Joseph, R. (690) 92)

HB-GAM; Cerebellum; Heparin-binding; Migration; Adhesion (Wewetzer, K. (693) 31)

Olfactory epithelium; Olfactory neuron; Trauma-induced regeneration; $ZnSO_4$; Olfactory marker protein; Tissue culture; Chemical trauma (Sosnowski, J.S. (702) 37)

Diffuse plaque
Alzheimer's disease; Amyloid β protein; Amyloid angiopathy; Cerebellum; Enzyme-linked immunosorbent assay; Immunocytochemistry (Tamaoka, A. (679) 151)

Amyloid β-protein; Alzheimer's disease; Cerebrovascular amyloid; Immunocytochemistry (Iizuka, T. (702) 275)

Diffusion
Anisotropy; Jimpy; Histology; Magnetic Resonance Imaging; Myelination (Ono, J. (671) 141)

Nerve growth factor; Elimination; Controlled release; Brain interstitium; Polymer (Krewson, C.E. (680) 196)

Digastric reflex
Periodontal mechanoreceptor; Masseter inhibition; Naturally behaving rabbit (Yamada, Y. (669) 86)

Dihydropyridine
κ-Opioid receptor; U-69,593; Ca^{2+}-channel; Analgesia (Barro, M. (672) 148)

Morphine tolerance; L-type calcium channel; Antinociception; Thapsigargin; Spinal cord; Brainstem; Striatum (Bernstein, M.A. (696) 83)

2,3-Dihydroxy-6-nitro-7-sulfamoylbenzo(f)quinoxaline
6-Cyano-7-nitroquinoxaline-2,3-dione; Kynurenate; Brain slice; Lateral olfactory tract; Excitatory amino acid (Yang, Q.Z. (680) 207)

Dihydroxyphenylacetic acid
Masculine sexual behavior; Sexual exhaustion; Medial preoptic area; Microdialysis; Dopamine; Homovanillic acid; 5-Hydroxyindoleacetic acid (Mas, M. (675) 13)

Microdialysis; Dihydroxyphenylglycol (Pacak, K. (688) 242)

5-Hydroxyindoleacetic acid; Homovanillic acid; Hypothalamic paraventricular nucleus; Microdialysis, in vivo; Neuropeptide Y; Noradrenaline; Rat (Pavia, J.M. (690) 108)

L-Dihydroxyphenylalanine
Aromatic L-amino acid decarboxylase; Dopamine; Striatum; 6-Hydroxydopamine; Parkinson's disease; Immunocytochemistry (Mura, A. (704) 51)

Dihydroxyphenylglycol
Microdialysis; Dihydroxyphenylacetic acid (Pacak, K. (688) 242)

5,7-Dihydroxytryptamine
5-Hydroxytryptamine; Dorsal raphe; Median raphe; Lesion; DRL 20s schedule (Fletcher, P.J. (675) 45)

Serotonin; Norepinephrine; Dopamine; Monoamine metabolite; Alcohol drinking; Ethanol; Brain region; Dorsal raphe nucleus; Median raphe nucleus; Sprague–Dawley rat (Adell, A. (693) 70)

DiI retrograde transport
A-current; Anomalous rectifier; Autonomic nervous system; Brainstem slice; Central adrenergic neuron; Medulla oblongata; Pacemaker neurons; Persistent sodium current; Medulla oblongata; Sympathetic nervous system; Vasomotor control (Kangrga, I.M. (670) 215)

Diisopropylfluorophosphate
Neurotoxicity; Neonatal; Muscarinic acetylcholine receptor; Behaviour; Insecticide; Organophosphate (Ahlbom, J. (677) 13)

Diisopropyl phosphorofluoridate
Hen; Intermediate filament proteins; Cytoskeletal pro CANP; OPIDN (Gupta, R.P. (677) 162)

Dilazep
Adenosine; *N*-Methyl-D-aspartate; Deoxycoformycin; Focused microwave sacrifice; Striatum; Microinjection (Delaney, S.M. (702) 72)

Diltiazem
Calcium channel; Hypoxia; MK-801; Neuroprotection; Synergy (Schurr, A. (684) 233)

Rat cerebellar Purkinje neuron; Nystatin-perforated patch-clamp; P-type Ca^{2+} channel; Verapamil (Ishibashi, H. (695) 88)

DiMe-C7
Dopamine; Blood pressure; Ventral tegmental area; Substantia nigra; Raclopride; SCH 23390; Vasopressin; Substance P (Cornish, J.L. (701) 28)

(±)-1-(2,5-Dimethoxy-4-iodophenyl)-aminopropane
5-HT_2 receptor; Amphetamine; Apomorphine; Dopamine; D_2 autoreceptor; Microdialysis; Rat (Ichikawa, J. (698) 204)

6,7-Dinitroquinoxaline-2,3-dione
Cocaine; Nucleus accumbens; Conditioned place preference (Kaddis, F.G. (697) 76)

4,6-Dioxoheptanoic acid
δ Opioid receptor; Naltrindole; Hypoxia; Heme protein; Cobalt; NG108-15 cell (Mayfield, K.P. (676) 358)

Diprenorphine
Opioid receptor; Autoradiography, in vivo; Social play; Social isolation (Vanderschuren, L.J.M.J. (680) 148)

Direct current
Rat; Brain; Sensorimotor cortex; Dark neuron; ^{45}Ca autoradiography; Anodal polarization (Islam, N. (684) 206)

Directional tuning
Pyramidal cell; Intracellular recording; Postsynaptic potential; Electrically evoked response (Lohmann, H. (671) 275)

Discrimination learning
Animal model; Senescence-accelerated mouse; Dietary oil; α-Linolenic acid; Linoleic acid; Sidman-active avoidance (Umezawa, M. (669) 225)

Microgyria; Ectopia; DBA; Lashley learning; Neocortex; Brain damage (Rosen, G.D. (681) 177)

Hippocampus; Septum; Acetylcholine; Dopamine; Microdialysis; Dual probe; Rat (Yamamuro, Y. (684) 1)

Disector
Cerebral ischaemia; Hippocampus; Synapse density; Chick (Horner, C.H. (703) 245)

Disinhibition
Whole-cell patch; Slice; Hippocampus; Inhibition; $GABA_A$; Chloride accumulation; Fast inhibitory postsynaptic current (Ling, D.S.F. (670) 142)

Long-term potentiation; Dentate gyrus; Opioid; $GABA_A$ receptor (Xie, C.W. (688) 56)

Dissociated cell
Acetylcholine; Calcium; Fractional efflux; Glutamate; High-performance liquid chromatography; Striatum (Login, I.S. (697) 271)

Dissociated muscle fibre
Nicotinic acetylcholine receptor channel; Rat muscle; Forskolin; Cyclic AMP-dependent protein kinase (Lorenzon, P. (703) 100)

Dissociated neuron
Ion channel; Osmotic effect; Glutamate; γ-Aminobutyric acid; Whole-cell patch-clamp; Cell volume (Vreugdenhil, M. (670) 89)

Dissociated outer hair cell
Caffeine; Guinea-pig cochlea; K^+ current; Whole-cell recording; Intracellular Ca^{2+} store (Yamamoto, T. (677) 89)

Distribution
Dopamine; Dopamine exocytosis; Cell body; Vesicle; Vesicle content; Vesicle size; Multiple classes of vesicle; *Planorbis corneus* (Chen, G. (701) 167)

Diving reflex
Trigeminal; Cardiovascular; Respiration; Glutamate; Kynurenate; Lidocaine; Nasal; Medullary dorsal horn; Diving response; Muskrat (Panneton, W.M. (691) 37)

Diving response
Trigeminal; Diving reflex; Cardiovascular; Respiration; Glutamate; Kynurenate; Lidocaine; Nasal; Medullary dorsal horn; Muskrat (Panneton, W.M. (691) 37)

Dizocilpine
Calcium; 6-Cyano-7-nitroquinoxaline-2,3-dione; Neurosteroid; Nimodipine; *N*-methyl-D-aspartate; Pregnenolone sulfate; Spermine (Fahey, J.M. (669) 183)

Diethyldithiocarbamate; Glutamate; *N*-Methyl-D-aspartate receptor; Mesencephalic cell; Dopamine uptake (Vaglini, F. (674) 127)

21-Aminosteroid; 2-Methylaminochroman; Cyanide; Iron toxicity; Primary neuronal culture; Neuroprotection (Müller, U. (678) 265)

Apneusis; Control of respiration; *N*-Methyl-D-aspartate receptor; Anesthetics; Mice; Rodent (Cassus-Soulanis, S. (679) 25)

Dopamine D1 receptor; Dopamine D2 receptor; Rotational behavior; Glutamate (Boldry, R.C. (692) 259)

Seizure; Glutamate; Glycine; 5,7-Dichlorokynurenic acid; (+)HA-966; ACPC; D-CPP; AP7; Strychnine (Peterson, S.L. (702) 101)

Dizocilpine maleate
Brain; Focal ischemia; Infarct size; Hyperthermia; Rat (Memezawa, H. (670) 48)

Excitatory amino acid; *N*-Methyl-D-aspartate antagonist; MK-801; Cingulate cortex; Neurotoxicity; Neuropathology; Rat (Fix, A.S. (696) 194)

Djungarian hamster
Brain temperature; Electroencephalogram; Hypothermia; Torpor; Spectral analysis (Deboer, T. (670) 153)

D1-like
Cocaine; Sulpiride; SCH-23390; Dopamine receptor; D2-like; *N*-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Receptor occupancy; Locomotor activity; Stereotypy; Nucleus accumbens (Neisewander, J.L. (671) 201)

D2-like
Cocaine; Sulpiride; SCH-23390; Dopamine receptor; D1-like; *N*-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Receptor occupancy; Locomotor activity; Stereotypy; Nucleus accumbens (Neisewander, J.L. (671) 201)

DMTU
MPTP; Parkinsonism; Oxygen free radical; [^{3}H]Dopamine uptake; Striatal tissue slice (Heo, J.H. (671) 321)

DNA damage
Apoptosis; Hypoxia-ischemia; Internucleosomal cleavage; Neonatal; Cell death (Hill, I.E. (676) 398)

DNA fragmentation
Delayed neuronal death; Apoptosis; Cerebral ischemia; Gerbil; Hippocampus (Iwai, T. (671) 305)

Global brain ischemia; Granular cell; Purkinje cell; Apoptosis; Nick-end labeling (Hara, A. (697) 247)

Carbamazepine; Apoptosis; Cerebellar granule cell; *N*-Methyl-D-aspartate; Aurintricarboxylic acid; Cycloheximide (Gao, X.-M. (703) 63)

Apoptosis; Bcl-2; MPP^+; SH-SY5Y cell (Itano, Y. (704) 240)

DNA synthesis
Peripheral benzodiazepine receptor; Growth factor; Diazepam; Basic fibroblast growth factor; Astrocyte; Proliferation (Neary, J.T. (675) 27)

DNQX
Cocaine; Conditioned place preference; SCH 23390; (−)-Sulpiride; MK-801; Rat (Cervo, L. (673) 242)

Heat shock; Phencyclidine; Excitotoxicity; AMPA receptor; Cortex; Ketamine; Rat (Sharp, J.W. (687) 114)

Docosahexaenoate
Brain; Arachidonate; Palmitate; Deoxyglucose; Quantitative autoradiography; Visual system; Orbital enucleation; Rat; Fatty acid; Lipid; Phospholipid; Glucose; Vision; Neuroplasticity (Wakabayashi, S. (679) 110)

Dog
Cerebral amyloid angiopathy; Aging; Morphometry; Ultrastructure; Smooth muscle cell (Wegiel, J. (705) 225)

Domestic chick
Intermediate and medial hyperstriatum ventrale; Lobus parolfactorius; *N*-Methyl-D-aspartate receptor; Learning and memory (Steele, R.J. (674) 352)

DOPA
Dorsal root ganglion; Peripheral sensory innervation; Dopamine; 3-*O*-methyl-DOPA; HPLC-ED; Sympathectomy; Rat (Bertrand, A. (681) 201)

L-DOPA
Parkinson's disease; Dopamine neuron; Neurotoxicity; Rat mesencephalic cell culture; Ascorbic acid (Pardo, B. (682) 133)

Parkinson's disease; ACh release; Microdialysis; 6-Hydroxydopamine; Supersensitization (Ueda, H. (698) 213)

3-*O*-methyl-DOPA
Dorsal root ganglion; Peripheral sensory innervation; Dopamine; DOPA; HPLC-ED; Sympathectomy; Rat (Bertrand, A. (681) 201)

Dopamine
Rat; Striatum; Cerebrospinal fluid; MPP^+; 6-Hydroxydopamine; Parkinson's disease (Espino, A. (669) 19)

Locomotion; Nicotine; Ventral tegmentum; Mesolimbic; Rat (Museo, E. (670) 257)

Amphetamine; Cocaine; Glutamate; γ-Aminobutyric acid; Stereotypy; Striatum; Mouse (Karler, R. (671) 100)

Rat; Diet; Protein; Brain; Hypothalamus; Retina; Tyrosine; Catecholamine; Appetite (Fernstrom, M.H. (672) 97)

Glial cell line-derived neurotrophic factor; Tyrosine hydroxylase; Substantia nigra; Striatum; Neuroprotection (Kearns, C.M. (672) 104)

Parkinsonism; Monkey; Motor behavior; Cognition; Recovery (Schneider, J.S. (672) 112)

Cotransmission; Dense-cored vesicle; Opiate; Opioid peptide; Substantia nigra (Sesack, S.R. (672) 261)

γ-Hydroxybutyrate; Prefrontal cortex; Electrophysiology; Sleep; Narcolepsy; Alcohol; Abuse (Godbout, R. (673) 157)

Behavioral sensitization; Medial prefrontal cortex; Nucleus accumbens; Excitatory amino acid; Glycine B receptor; Locomotion (Morrow, B.A. (673) 165)

Aging; Muscarinic receptor; *S*-Adenosylmethionine; Cholesterol; Striatum (Joseph, J.A. (673) 185)

Enkephalin; Immediate-early gene; Behavioral sensitization; Hybridization, in situ; Nucleus accumbens (Wang, J.Q. (673) 262)

Microinjection; Intracraneal temperature; Lateral hypothalamus; Sulpiride; Dopamine D2 receptor; Brain self-stimulation; Neuroleptic malignant syndrome (Parada, M.A. (674) 117)

Cyclic voltammetry, in vivo; 5-Hydroxytryptamine; Uptake transporter; Fluoxetine; Nomifensine (Jackson, B.P. (674) 163)

Acetylcholine; Prefrontal cortex; Rat; Delayed-matching-to-position; Short-term memory (Broersen, L.M. (674) 221)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Mouse; GM1 ganglioside; Fibroblast growth factor; Epidermal growth factor (Schneider, J.S. (674) 260)

Conditioning; Context-specific sensitization; Environment-specific sensitization; Novelty; Stress; Rotational behavior; Striatum; Rat (Badiani, A. (674) 291)

Masculine sexual behavior; Sexual exhaustion; Medial preoptic area; Microdialysis; Dihydroxyphenylacetic acid; Homovanillic acid; 5-Hydroxyindoleacetic acid (Mas, M. (675) 13)

N-Methyl-4-phenylpyridinium ion; Neurodegeneration; Parkinson's disease; Substantia nigra; Rat; Carboline (Neafsey, E.J. (675) 279)

Nucleus accumbens; Microdialysis; Stress; Footshock (Kalivas, P.W. (675) 325)

Sensitization; γ-Aminobutyric acid; Homogenate receptor binding; Neurotoxicity (Lipton, J.W. (676) 378)

Neuroleptic; RWJ 37796; Striatum; Extrapyramidal symptom; Supersensitivity (Shapiro, L.A. (677) 250)

Tryptophan hydroxylase; Circadian; Melatonin; Serotonin; Retina; Light; *Xenopus* (Green, C.B. (677) 283)

Cocaine; Sensitization; Fast cyclic voltammetry; Nucleus accumbens; Ventral tegmental area; Rat (Williams, J.E.G. (678) 225)

Antibody microprobe; In vivo; Neurokinin A; Rat brain; Release; Substantia nigra (Furmidge, L.J. (679) 241)

Differentiation; Growth factor; Tyrosine hydroxylase; Tissue culture; Gene activation (Du, X. (680) 229)

Dorsal root ganglion; Peripheral sensory innervation; DOPA; 3-*O*-methyl-DOPA; HPLC-ED; Sympathectomy; Rat (Bertrand, A. (681) 201)

Cocaine; Cocaine self-administration; Neurotransmitter turnover rate; Noradrenaline; Serotonin; γ-Aminobutyric acid; Glutamate; Aspartate (Dworkin, S.I. (682) 116)

Discrimination learning; Hippocampus; Septum; Acetylcholine; Microdialysis; Dual probe; Rat (Yamamuro, Y. (684) 1)

d-Amphetamine; 6-Hydroxydopamine; Locomotor activity; Microdialysis; Neostriatum; Schizophrenia; Stress (King, D. (685) 117)

Microdialysis; CCK receptor (Hamilton, M.E. (688) 134)

MPTP; MPP^+; Neurotoxicity; Body temperature; Deprenyl; Heat shock protein (Freyaldenhoven, T.E. (688) 161)

CTA; Microdialysis (Mark, G.P. (688) 184)

Norepinephrine; Hypothalamus; Estrous cycle; Aging; Push–pull perfusion (ThyagaRajan, S. (689) 122)

Basal ganglia; Substantia nigra; Tyrosine hydroxylase; Mesolimbic; Nigrostriatal (Tan, Y. (689) 151)

Microdialysis; Nucleus accumbens; Cholecystokinin; Spontaneously hypertensive rat (Kirouac, G.J. (689) 245)

6-Hydroxydopamine; D1 Receptor; D2 Receptor; GBR-12909; Self-injurious behavior; Striatum (Sivam, S.P. (690) 259)

Excitatory synaptic transmission; Sulpiride; SKF-83566; Neostriatum; Rat (Hsu, K.-S. (690) 264)

ATP; P_{2Y} purinoceptor; Striatum; Microdialysis; Ion channel (Zhang, Y.-X. (691) 205)

Angiotensin II; Rotation; Losartan; Striatum; Substantia nigra; Haloperidol (Jenkins, T.A. (691) 213)

Sexual behavior; Medial preoptic area; Microdialysis; Male rat; CA column (Sato, Y. (692) 66)

N-Methyl-D-aspartic acid; Glutamate; Opiate; Excitatory amino acid (Livezey, R.T. (692) 93)

Parkinson's disease; Substantia nigra; Human; Synaptic vesicle (Thibaut, F. (692) 233)

5-HT_4 receptor; GR-113808; Serotonin; Microdialysis; Striatum; Substantia nigra; Nucleus accumbens (Pozzi, L. (692) 265)

Sex; Lordosis; Female rat; Estrogen; Progesterone; Microdialysis (Pfaus, J.G. (693) 21)

Serotonin; Norepinephrine; Monoamine metabolite; 5,7-Dihydroxytryptamine; Alcohol drinking; Ethanol; Brain region; Dorsal raphe nucleus; Median raphe nucleus; Sprague–Dawley rat (Adell, A. (693) 70)

Hypoxia; *N*-Methyl-D-aspartate; Voltammetry (Wang, Y. (693) 233)

Anandamide (arachidonylethanolamide); Δ^9-Tetrahydrocannabinol; Cannabinoid receptor; Nigrostriatal dopaminergic neuron; Motor activity; Stereotypic behavior (Romero, J. (694) 223)

Neurokinin receptor; Substance P; Senktide; Substantia nigra; 6-Hydroxydopamine; Parkinson's disease (Bannon, M.J. (695) 19)

Sexual behavior; Prefrontal cortex; Amphetamine; Caffeine; Noradrenaline (Ågmo, A. (696) 187)

Prolactin; Dopamine D_1 receptor; Ventromedial hypothalamus; SCH23390; Sheep (Curlewis, J.D. (697) 48)

Brain (rat); Electroconvulsive stimulus (ECS); Neuropeptide; Noradrenaline; Serotonin (Stenfors, C. (698) 39)

(±)-1-(2,5-Dimethoxy-4-iodophenyl)-aminopropane; 5-HT_2 receptor; Amphetamine; Apomorphine; D_2 autoreceptor; Microdialysis; Rat (Ichikawa, J. (698) 204)

Manganese; Ferrous citrate; Lipid peroxidation; Neurotoxicity; Nigrostriatal neuron; Free radical; Mn-SOD (Sziráki, I. (698) 285)

Methamphetamine; Nitric oxide; Microdialysis (Bowyer, J.F. (699) 62)

Shell; Core; Rostral pole; D_2 autoreceptor; Neuronal uptake; Fast cyclic voltammetry (Wieczorek, W. (699) 171)

Cholecystokinin; Copulation; Intracranial stimulation; Nucleus accumbens; Sexual behavior; Ventral tegmental area (Markowski, V.P. (699) 266)

N-Methyl-D-aspartate; Nitric oxide; Nucleus accumbens; N^G-Nitro-L-arginine; Microdialysis (Ohno, M. (699) 332)

Methamphetamine; Cortex; Striatum; Glutamate; Microdialysis (Stephans, S.E. (700) 99)

D_1 receptor; Grooming; Substantia nigra; Tachykinin (Stoessl, A.J. (700) 115)

6-Hydroxydopamine lesion; Basal ganglia; Motor function; On-off phenomenon; Glutamate antagonist; *N*-Methyl-D-aspartate; MK-801 (Papa, S.M. (701) 13)

Blood pressure; Ventral tegmental area; Substantia nigra; Raclopride; SCH 23390; Vasopressin; DiMe-C7; Substance P (Cornish, J.L. (701) 28)

Dopamine exocytosis; Cell body; Vesicle; Vesicle content; Vesicle size; Multiple classes of vesicle; Distribution; *Planorbis corneus* (Chen, G. (701) 167)

β-Phenylethylamine; Nigrostriatal cell (Rodriguez, M. (703) 201)

Aromatic L-amino acid decarboxylase; Striatum; 6-Hydroxydopamine; L-Dihydroxyphenylalanine; Parkinson's disease; Immunocytochemistry (Mura, A. (704) 51)

Lipopolysaccharide; Astrocyte; Microglia; 6-hydroxydopamine; Tyrosine hydroxylase; Parkinson's disease; Substantia nigra (Bronstein, D.M. (704) 112)

Haloperidol; Microdialysis; Caudate putamen; Cortex; Neurotensin (See, R.E. (704) 202)

MPTP; Parkinsonism; Globus pallidus; Entopeduncular nucleus (Rothblat, D.S. (705) 1)

D_1-Dopamine agonist
Acetylcholine; Glutamate; Reserpine; Supersensitivity; Striatum; In vitro (Login, I.S. (681) 209)

Dopamine and behavioral compensation
Dopamine and locomotion; Dopamine and turning; Dopamine and turning in rat; Dopamine and voluntary movement; Parkinson's disease model (Miklyaeva, E.I. (681) 23)

Dopamine and locomotion
Dopamine and behavioral compensation; Dopamine and turning; Dopamine and turning in rat; Dopamine and voluntary movement; Parkinson's disease model (Miklyaeva, E.I. (681) 23)

Dopamine and turning
Dopamine and behavioral compensation; Dopamine and locomotion; Dopamine and turning in rat; Dopamine and voluntary movement; Parkinson's disease model (Miklyaeva, E.I. (681) 23)

Dopamine and turning in rat
Dopamine and behavioral compensation; Dopamine and locomotion; Dopamine and turn-

ing; Dopamine and voluntary movement; Parkinson's disease model (Miklyaeva, E.I. (681) 23)

Dopamine and voluntary movement
Dopamine and behavioral compensation; Dopamine and locomotion; Dopamine and turning; Dopamine and turning in rat; Parkinson's disease model (Miklyaeva, E.I. (681) 23)

Dopamine antagonist
Substantia nigra; Entopeduncular nucleus; Globus pallidus; c-*fos*; D_1 receptor; D_2 receptor (Wirtshafter, D. (670) 205)

Dopamine-β-hydroxylase
Ciliary ganglion; Substance P; Calcitonin gene-related peptide; Vasoactive intestinal polypeptide; Neuropeptide Y; Tyrosine hydroxylase; Human (Kirch, W. (681) 229)

Dopamine carrier (neuronal)
6-Hydroxydopamine; L-DOPA therapy; Parkinson's disease; Neurotoxicity; Mouse (Naudin, B. (701) 151)

Dopamine contents
Unilateral nigrostriatal lesion; Rat; Striatum; Ipsilateral rotation; 6-Hydroxydopamine (Matsuda, H. (686) 111)

Dopamine D1
Accumbens; Amygdala; Cocaine; Reinforcement; SCH 23390; Self-administration; Striatum (Caine, S.B. (692) 47)

Dopamine denervation
[^{3}H]Serotonin uptake autoradiography; Serotonin axon terminal; Nigrostriatal lesion; Caudate–putamen (Mrini, A. (669) 303)

Dopamine D1 receptor
Dopamine D2 receptor; Dizocilpine; Rotational behavior; Glutamate (Boldry, R.C. (692) 259)

Dopamine D_1 receptor
Prolactin; Dopamine; Ventromedial hypothalamus; SCH23390; Sheep (Curlewis, J.D. (697) 48)

Dopamine D_2-like receptor
Chick retina; Immunocytochemistry; Hybridization, in situ; Form-deprivation myopia (Rohrer, B. (695) 110)

Dopamine D2 receptor
Microinjection; Intracraneal temperature; Dopamine; Lateral hypothalamus; Sulpiride; Brain self-stimulation; Neuroleptic malignant syndrome (Parada, M.A. (674) 117)

Dopamine D1 receptor; Dizocilpine; Rotational behavior; Glutamate (Boldry, R.C. (692) 259)

Dopamine D_2-receptor
Dopamine release; Acetylcholine; Quinpirole; Sulpiride; Hyperkinesis (Russell, V. (676) 343)

Nicotine; Receptor–receptor interaction; Tyrosine hydroxylase; Hybridization, in situ (Li, X.-M. (679) 157)

Hippocampus; [^{3}H]YM-09151–2; Receptor autoradiography; Rat (Yokoyama, C. (681) 153)

CGS 21680; Adenosine A_{2a} receptor; Binding affinity; Basal ganglia (Hillefors-Berglund, M. (690) 34)

Dopamine D_3 receptor
7-OH-DPAT; Autoreceptor; ICSS; Voltammetry (Gilbert, D.B. (681) 1)

Dopamine exocytosis
Dopamine; Cell body; Vesicle; Vesicle content; Vesicle size; Multiple classes of vesicle; Distribution; *Planorbis corneus* (Chen, G. (701) 167)

Dopamine metabolism
Dopamine transporter; Cocaine receptor; RTI-55; WIN 35,428; Quantitative autoradiography; Dopamine uptake (Coulter, C.L. (690) 217)

Dopamine neuron
Parkinson's disease; Fetal transplant; Levodopa; Functional recovery (Steece-Collier, K. (676) 404)

Allograft; Brain tissue transplantation; Rejection; Active immunization; Adoptive immunization (Shinoda, M. (680) 180)

Ethanol; Withdrawal; Depolarization block; Anesthesia (Diana, M. (682) 29)

L-DOPA; Parkinson's disease; Neurotoxicity; Rat mesencephalic cell culture; Ascorbic acid (Pardo, B. (682) 133)

Cool storage; Hibernation medium; Microtransplantation; Parkinson's disease (Nikkhah, G. (687) 22)

Dopamine receptor
Methylazoxymethanol; Microencephaly; Hyperactivity; Methamphetamine (Watanabe, M. (670) 173)

Cocaine; Sulpiride; SCH-23390; D1-like; D2-like; *N*-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Receptor occupancy; Locomotor activity; Stereotypy; Nucleus accumbens (Neisewander, J.L. (671) 201)

Amphetamine; Behavioral sensitization; Serotonin receptor; Quantitative autoradiography (Bonhomme, N. (675) 215)

Parkinson's disease; Basal ganglia; Dyskinesia; $GABA_A$ receptor; Globus Pallidus; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (Calon, F. (680) 43)

Substantia nigra; Behaviour; *N*-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Autoradiography (Lee, C.Y. (681) 205)

Mesolimbic dopamine system; Amphetamine-induced sensitization; Prenatal stress; Glucocorticoids (Henry, C. (685) 179)

Haloperidol; Dopamine transporter; Hybridization, in situ; Gender effect (Rivest, R. (692) 269)

Striatum; Corticostriatal afferent; Fos; Glutamate receptor; Cortex (Liste, I. (700) 1)

Tubulin; G protein; Adenylyl cyclase; Signal transduction (Hatta, S. (704) 23)

Dopamine release
Striatal synaptosome; $[Ca^{2+}]_i$; 4-Aminopyridine; KCl depolarization; Ca^{2+} channel (Carvalho, C.M. (669) 234)

Clozapine; Chronic treatment; Brain microdialysis (Invernizzi, R. (670) 165)

Long-term potentiation; Ischemia; Striatum; Glutamate (Inoue, H. (671) 95)

Zinc; ATP; Intracellular Ca^{2+} concentration; ATP-activated current; PC12 cells (Koizumi, S. (673) 75)

Acetylcholine; Dopamine D_2-receptor; Quinpirole; Sulpiride; Hyperkinesis (Russell, V. (676) 343)

Acetylcholine release; Retina; ω-Conotoxin GVIA; ω-Conotoxin MVIIC; ω-Agatoxin IVA (Tamura, N. (676) 363)

Cadmium; Striatum; *N*-Methyl-D-aspartate; Kainate; Amperometry, in vivo; Superfusion, in vivo; Rat (Olivier, V. (695) 1)

Ethanol; *N*-Methyl-D-aspartate; Nomifensine; Uptake; Striatum; Electrochemistry, in vivo (Lin, A.M.-Y. (696) 15)

Dopaminergic
Goldfish, brain; Tyrosine hydroxylase; Neuron; MPTP; Parkinson's disease; Animal model; Microscopy; Immunohistochemistry; Ultrastructure (Goping, G. (687) 35)

Dopaminergic amacrine cell
Chicken; Form-deprivation myopia; Stroboscopic illumination; Basic fibroblast growth factor (Rohrer, B. (686) 169)

Dopaminergic neuron
Aromatic L-amino acid decarboxylase; L-5-Hydroxytryptophan; Serotonin; Monoamine oxidase; Noradrenergic neuron; Substantia nigra pars compacta; Locus coeruleus (Arai, R. (669) 145)

Electrical stimulation; Prefrontal cortex; Synaptic plasticity; Sensitization (Tong, Z.-Y. (674) 63)

Neurotensin; Substantia nigra; Whole-cell recording; Cationic current; Inwardly rectifying potassium current; G-protein; Inositol 1,4,5-trisphosphate (Wu, T. (683) 242)

Dopaminergic system
Quinolinic acid; 6-Hydroxydopamine; Striatum; Substantia nigra; Neuroprotection (Venero, J.L. (672) 153)

Dopamine transporter
[^{3}H]GBR 12935; Prefrontal cortex; Piperazine acceptor site; Striatum; Dopamine uptake site (Gordon, I. (674) 205)

Cocaine receptor; RTI-55; WIN 35,428; Quantitative autoradiography; Dopamine metabolism; Dopamine uptake (Coulter, C.L. (690) 217)

Haloperidol; Dopamine receptor; Hybridization, in situ; Gender effect (Rivest, R. (692) 269)

Dopamine uptake
Parkinson's disease; Adrenal medullary graft; Sprouting; 6-Hydroxydopamine; Retrograde transport; Striatum (Hansen, J.T. (670) 197)

Diethyldithiocarbamate; Glutamate; *N*-Methyl-D-aspartate receptor; Dizocilpine; Mesencephalic cell (Vaglini, F. (674) 127)

Dopamine transporter; Cocaine receptor; RTI-55; WIN 35,428; Quantitative autoradiography; Dopamine metabolism (Coulter, C.L. (690) 217)

HIV-1; gp120; Neurotoxicity; Midbrain culture; *N*-Methyl-D-aspartate (Bennett, B.A. (705) 168)

Dopamine uptake site
Dopamine transporter; [^{3}H]GBR 12935; Prefrontal cortex; Piperazine acceptor site; Striatum (Gordon, I. (674) 205)

L-DOPA therapy
6-Hydroxydopamine; Parkinson's disease; Neurotoxicity; Dopamine carrier (neuronal); Mouse (Naudin, B. (701) 151)

Dorsal column
Spinal cord injury; Spinal cord compression; Potassium channel; 4-Aminopyridine (Fehlings, M.G. (677) 291)

Dorsal hippocampus
Citalopram; Chronic treatment; Microdialysis; Serotonin; 5-HT_{1A} receptor; Terminal 5-HT autoreceptor (Invernizzi, R. (696) 62)

Dorsal horn
Autonomic nervous system; Excitatory amino acid receptor; Ventilation (Wong, M.K.C. (683) 149)

CGP-39653; Excitotoxicity; Motor neuron; NMDAR1 subunit; Nociception; Peripheral neuropathy; Neural transplant (Hama, A.T. (687) 103)

Pain; Nociception; Spinal cord slice; Dorsal root potential; $GABA_A$ receptor; Presynaptic inhibition (Shimizu, T. (691) 92)

Substantia gelatinosa; Lamina I; Electron microscopy; Double labelling; Immunocytochemistry; Immunogold (Ma, W. (692) 99)

Dorsal lateral geniculate nucleus
Thalamic reticular nucleus; Lateral dorsal nucleus; Lateral posterior nucleus; Thalamic inhibition (Pinault, D. (670) 147)

Dorsal motor nucleus
Glutamate; Negative dromotropic: Retrograde transport; Ultrastructure; Vagus nerve (Massari, V.J. (679) 227)

Dorsal raphe
5-Hydroxytryptamine; 5,7-Dihydroxytryptamine; Median raphe; Lesion; DRL 20s schedule (Fletcher, P.J. (675) 45)

Morphine; Analgesia; Microdialysis; Spinal cord; Hypothalamus; Serotonin (Matos, F.F. (693) 187)

Dorsal raphe nucleus
Serotonin; γ-Aminobutyric acid; Glutamic acid decarboxylase; Nucleus raphe magnus; Colocalization; Immunohistochemistry (Stamp, J.A. (677) 39)

β-Endorphin; Nitric oxide synthase; Immunocytochemistry; Synapse; Electron microscopy (Wang, Q.-P. (684) 185)

Serotonin transporter; Gene expression; Hybridization, in situ; *p*-Chlorophenylalanine; Autoradiography (Yu, A. (688) 209)

Serotonin; Norepinephrine; Dopamine; Monoamine metabolite; 5,7-Dihydroxytryptamine; Alcohol drinking; Ethanol; Brain region; Median raphe nucleus; Sprague–Dawley rat (Adell, A. (693) 70)

Dorsal respiratory group
Ventrolateral nucleus tractus solitarius; Superior laryngeal nerve; NBQX; Respiratory control (Karius, D.R. (682) 235)

Dorsal rhizotomy
Immunoreactive dynorphin; Spinal cord; Cerebral area; Deafferentation pain; Deafferentation syndrome; Neuroplasticity; Rat (Candeletti, S. (670) 289)

Opioid receptor; Rat spinal cord; Receptor autoradiography; Primary afferent fiber (Stevens, C.W. (687) 53)

Dorsal root
Primary afferent; Branching (Nagy, I. (703) 223)

Dorsal root ganglia
Substance P; Preprotachykinin mRNA; Synovium; Monoarthritis; Rat (Garrett, N.E. (675) 203)

Preprotachykinin-A mRNA; Preprosomatostatin mRNA; Substance P; Somatostatin; Inflammation; Hybridization, in situ; Rat (Hanesch, U. (700) 279)

Somatic; Autonomic; Intermediolateral cell column; Renin–angiotensin system (Moeller, I. (701) 301)

GAP-43; Neuroaxonal dystrophy; Axotomy (Ohara, S. (705) 325)

Dorsal root ganglia neuron
Calcitonin gene-related peptide; Gene expression; Glucocorticoid; Protein kinase A; Protein kinase C (Supowit, S.C. (686) 77)

Dorsal root ganglion
Neuronal adhesion; Down's syndrome; Nerve growth factor; Murine trisomy 16 (Pearce, R. (680) 108)

Peripheral sensory innervation; Dopamine; DOPA; 3-*O*-methyl-DOPA; HPLC-ED; Sympathectomy; Rat (Bertrand, A. (681) 201)

Sciatic nerve; Conditioned medium; Neurotrophic factor; PC12 cell; Chick ganglia; Ciliary ganglion (Villegas, G.M. (685) 77)

G-protein; Retrograde axonal transport; Nuclear translocation; Peptide antibody (Hendry, I.A. (700) 157)

GABA receptor channel; Lindane; HCH isomer; Insecticide; Chloride current (Nagata, K. (704) 85)

Dorsal root ganglion neuron
Peptide blockers of excitatory opioid receptor function: [des-Tyr^1]dynorphin A-(1-13); β-Endorphin-(1-27); Action potential shortening vs. prolongation; Bimodal agonist action of endogenous opioid (Shen, K.-F. (673) 30)

Succinate dehydrogenase activity; Soma size; Ventral horn neuron; Cat (Ishihara, A. (676) 212)

Naloxone-precipitated withdrawal effects; Opioid excitatory supersensitivity; Excitatory opioid receptor antagonist; Etorphine (Crain, S.M. (694) 103)

Opioid; μ Receptor agonist; δ Receptor agonist; κ Receptor agonist; Cholera toxin; K^+ Conductance; Neuroblastoma F11 cell; Pertussis toxin (Fan, S.-f. (696) 97)

Dorsal root potential
Dorsal horn; Pain; Nociception; Spinal cord slice; $GABA_A$ receptor; Presynaptic inhibition (Shimizu, T. (691) 92)

Dorsal spinocerebellar tract
Spinocerebellum; Purkinje cell (Perciavalle, V. (695) 293)

Dorsal subiculum
Hybridization, in situ; Peptide precursor; Hippocampus; Mamillary body (Nicot, A. (702) 279)

Dorsolateral funiculus
Antidepressant drug; Pain; Serotonin (Ardid, D. (695) 253)

Dorsomedial hypothalamic nucleus
Arginine-vasopressin; Quantitative autoradiography; Lactation; Ventrolateral hypothalamus; Suprachiasmatic nucleus (Delville, Y. (689) 147)

Dose–response
rhNGF; rhbFGF; Cholinergic degeneration; Neurotrophic factor; Fimbria-fornix; Transection; Hippocampus (Emmett, C.J. (673) 199)

Double bouquet cell
γ-Aminobutyric acid; Calretinin; Interneuron; Temporal cortex; Calcium-binding protein; Alzheimer's disease (Fonseca, M. (691) 83)

Double fluorescence labeling
Calcium-binding protein; Calretinin; Dual-peroxidase staining; Olfactory system; Mitral cell; Tufted cell (Wouterlood, F.G. (682) 93)

Double-immunohistochemical method
Red nucleus; Calcium-binding protein; Calbindin D-28k; Parvalbumin; Motor system; Rat (Hontanilla, B. (696) 121)

Double immunohistochemistry
Calcitonin gene-related peptide; Tyrosine hydroxylase; Nucleus of the solitary tract; A2-Catecholaminergic cell group (Fodor, M. (690) 141)

Double-immunostaining technique
Superior salivatory nucleus; Pterygopalatine ganglion; Cholera toxin B subunit; Tyrosine hydroxylase; Serotonin; Neuropeptide (Nemoto, T. (685) 33)

Double-labeled neuron
Suprageniculate nucleus; Superior colliculus; Bilateral projection; WGA–HRP; Fluorescent tracer; Light and electron microscopy; Extrageniculate visual system; Cat (Katoh, Y.Y. (669) 298)

Double-labeling
Protein kinase C; PKC; Isoenzyme; IMHV; Imprinting; Neuron-specific enolase; S100; Glial cell (Van der Zee, E.A. (676) 41)

Corpus callosum; Interhemispheric; Immunocytochemistry; Retrograde tracing; Cholera toxin B (Gonchar, Y.A. (697) 27)

Axonal bifurcation; Retinal ganglion cell; Lateral geniculate nucleus; Retrograde fluorescent tracer (Dong, K. (703) 231)

Retinal ganglion cell; Uni- and bilateral projection; Fluorescent tracer; Superior colliculus; Ocular enucleation (Farid Ahmed, A.K.M. (704) 307)

Double labelling
Enkephalin; Cerebellar nucleus; Cervical cord; Cerebellospinal projection; Rat; Immunohistochemistry (Ikeda, M. (690) 225)

Substantia gelatinosa; Dorsal horn; Lamina I; Electron microscopy; Immunocytochemistry; Immunogold (Ma, W. (692) 99)

Amygdala; *Macaca mulatta*; *Wisteria floribunda* agglutinin; Extracellular matrix; Calcium-binding protein; γ-Aminobutyric acid (Härtig, W. (698) 265)

Down-regulation
Dexamethasone; Brain; Endothelin B receptor mRNA; Endothelin mRNA; Rat (Shibata, K. (692) 71)

Down's syndrome
Cell line; T antigen; Septum; Mouse trisomy 16; Alzheimer's disease; Nerve growth factor (Kim, J.-H. (671) 299)

Neuronal adhesion; Dorsal root ganglion; Nerve growth factor; Murine trisomy 16 (Pearce, R. (680) 108)

Apolipoprotein E; Apolipoprotein J; Alzheimer's disease; β-Amyloid; Fibrillogenesis; Immunocytochemistry; Immunoelectron microscopy (Kida, E. (685) 211)

Excitotoxin; *N*-Methyl aspartic acid; Calcification; Basal forebrain; Cholinergic; Alzheimer's disease (Stewart, G.R. (695) 81)

Trisomy 16 mouse; Septum; Neuron culture; Membrane current; Action potential (Acevedo, L.D. (701) 89)

DPAT
Buspirone; rCMRglc; Serotonin 5-HT; Anxiolytic (Freo, U. (677) 213)

DPCPX
Cerebral ischemia; Gerbil; Adenosine antagonist; CP 66,713; Chlorostyrylxanthine; CGS 15943; Stroke (Phillis, J.W. (705) 79)

DPDPE
Mu-opioid; Kappa-opioid; Delta-opioid; DAMGO; U-50,488H; Amphetamine; VTA; Mesoaccumbens dopaminergic system; Feeding; Drinking; Hyperdipsia; Gnawing; Activity; VTA (Badiani, A. (670) 264)

Ventral tegmental area; Opioid; DAMGO; μ; δ; Feeding (Noel, M.B. (673) 304)

D_1 receptor
Substantia nigra; Entopeduncular nucleus; Globus pallidus; c-*fos*; Dopamine antagonist; D_2 receptor (Wirtshafter, D. (670) 205)

Dopamine; Grooming; Substantia nigra; Tachykinin (Stoessl, A.J. (700) 115)

Immediate-early gene; c-*fos*; D_2 receptor; Synergism; Globus pallidus; Subthalamic nucleus; SKF 38393; Quinpirole (Ruskin, D.N. (703) 156)

D1 Receptor
6-Hydroxydopamine; D2 Receptor; Dopamine; GBR-12909; Self-injurious behavior; Striatum (Sivam, S.P. (690) 259)

D_2 receptor
Substantia nigra; Entopeduncular nucleus; Globus pallidus; c-*fos*; Dopamine antagonist; D_1 receptor (Wirtshafter, D. (670) 205)

Neuroleptic; Paw test; Neostriatum; Nucleus accumbens; Olfactory tubercle; Sulpiride (Prinssen, E.P.M. (673) 283)

PACAP; Microinjection; DA; Lateral hypothalamus; Sulpride; Drinking; Osmolarity; Blood pressure (Puig de Parada, M. (696) 254)

Immediate-early gene; c-*fos*; D_1 receptor; Synergism; Globus pallidus; Subthalamic nucleus; SKF 38393; Quinpirole (Ruskin, D.N. (703) 156)

D2 Receptor
6-Hydroxydopamine; D1 Receptor; Dopamine; GBR-12909; Self-injurious behavior; Striatum (Sivam, S.P. (690) 259)

Drinking
Mu-opioid; Kappa-opioid; Delta-opioid; DAMGO; U-50,488H; DPDPE; Amphetamine; VTA; Mesoaccumbens dopaminergic system; Feeding; Hyperdipsia; Gnawing; Activity; VTA (Badiani, A. (670) 264)

Opioid; Mu-opioid receptor; CTOP; Ventral tegmental area; Nucleus accumbens; Feeding; Locomotor activity; Rat (Badiani, A. (690) 112)

PACAP; Microinjection; DA; Lateral hypothalamus; Sulpride; D_2 receptor; Osmolarity; Blood pressure (Puig de Parada, M. (696) 254)

DRL 20s schedule
5-Hydroxytryptamine; 5,7-Dihydroxytryptamine; Dorsal raphe; Median raphe; Lesion (Fletcher, P.J. (675) 45)

Drosophila
Tubulin; Microtubule-associated proteins; Actin-related proteins (Srinivasan, S. (701) 39)

Drosophila melanogaster
GABA receptor; RDL (resistance to dieldrin) subunit; Bicyclic dinitrile; Convulsant site (Hosie, A.M. (693) 257)

Drug abuse
Nucleus accumbens; MDMA; Ecstasy; Striatum; Withdrawal; Cocaine (White, S.R. (681) 167)

Drug delivery
Intranasal; Olfactory bulb; Protein transport; Alzheimer's disease (Thorne, R.G. (692) 278)

Drug self-administration
U50,488; Spiradoline; Nor-binaltorphimine; Morphine; Cocaine; Kappa opioid (Glick, S.D. (681) 147)

DSP4 lesion
Glucocorticoid receptor mRNA; Hippocampus; Desipramine; Fluoxetine (Rossby, S.P. (687) 79)

Dual immunocytochemistry
Suprachiasmatic nucleus; Paraventricular nucleus; Circadian rhythms; Phaseolus vulgaris-leucoagglutinin; Corticotropin-releasing factor (Vrang, N. (684) 61)

Hypothalamic paraventricular nucleus; Ventrolateral medulla; Tyrosine hydroxylase; α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid; Rat; Retrograde tracing (Larsen, P.J. (705) 209)

Dual opioid inhibitory-agonist/excitatory-antagonist
Peptide antagonist excitatory opioid receptor; Etorphine; Action potential shortening vs. prolongation (Shen, K.-F. (701) 158)

Dual-peroxidase staining
Calcium-binding protein; Calretinin; Double fluorescence labeling; Olfactory system; Mitral cell; Tufted cell (Wouterlood, F.G. (682) 93)

Dual probe
Discrimination learning; Hippocampus; Septum; Acetylcholine; Dopamine; Microdialysis; Rat (Yamamuro, Y. (684) 1)

DuP 734
Sigma receptor; Norepinephrine; Hippocampus; *N*-Methyl-D-aspartate receptor; (+)Pentazocine; BD737 (Gonzalez-Alvear, G.M. (673) 61)

D-wave
Undernutrition; Myelin; Pyramidal tract; Spinal cord; I-wave; Development (Quirk, G.J. (670) 277)

Dynamic maintenance
Area 3b; Squirrel monkey; Correlated activity; Syndactyly (Garraghty, P.E. (686) 119)

Dynorphin
κ-Opioid receptor; AMPA/kainate receptor; Rat spinal dorsal horn neuron; Whole-cell voltage-clamp (Kolaj, M. (671) 227)

β-Endorphin; NK cell activity; Conditioning (Hsueh, C.-M. (678) 76)

Rat strain; Enkephalin; Morphine dependence; Morphine withdrawal (Nylander, I. (683) 25)

Diabetes; Streptozotocin; Feeding (Berman, Y. (685) 129)

Enkephalin; Morphine; Naltrexone; Striatum; Caudate-putamen; Nucleus accumbens-olfactory tubercle; Tolerance; Dependence (Trujillo, K.A. (698) 69)

Analgesia; β-Endorphin; Endorphins; Enkephalin; Morphine; Naloxone; Opiate (Mansour, A. (700) 89)

Dynorphin A
κ-Opioid receptor; U50488; P-type Ca^{2+} channel; G-protein; Norbinartorphimine; Purkinje cell; Rat (Kanemasa, T. (702) 207)

Dynorphin mRNA
Adrenal steroid; Corticosterone; Type I; Type II receptors; Stress; *N*-Methyl-D-aspartate receptor; AMPA receptor; Dentate gyrus; Mossy fiber; Stratum lucidum (Watanabe, Y. (680) 217)

Thyroid hormone; Enkephalin mRNA; Hippocampus; Kainic acid; Hybridization, in situ; Rat (Giardino, L. (687) 83)

Dyskinesia
Parkinson's disease; Basal ganglia; $GABA_A$ receptor; Dopamine receptor; Globus Pallidus; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (Calon, F. (680) 43)

Dystonia
Putamen; Bicuculline; Neuronal mechanism; Substantia nigra pars reticulata; Single unit recording (Yamada, H. (677) 333)

Cerebellar nucleus; Cerebellum; Kainic acid; Stereotactic (LeDoux, M.S. (697) 91)

Dystrophic neurite
C1 inhibitor; Alzheimer's disease; Suicide reaction (Walker, D.G. (675) 75)

E

Early development
Aggregating brain cell culture; Trimethyltin (TMT); Neurotoxicity; Microglia; Synaptophysin; Synapsin I; GAP-43 (Monnet-Tschudi, F. (690) 8)

Ecstasy
Nucleus accumbens; MDMA; Striatum; Withdrawal; Drug abuse; Cocaine (White, S.R. (681) 167)

Ectopeptidase
Thyrotropin releasing hormone; Pyroglutamyl peptidase II; Kindling; Neuropeptide (De Gortari, P. (679) 144)

Ectopia
Microgyria; Discrimination learning; DBA; Lashley learning; Neocortex; Brain damage (Rosen, G.D. (681) 177)

Hippocampus; Timm staining; Weaver mouse (Sekiguchi, M. (696) 262)

ED1
Astrogliosis; Glial fibrillary acidic protein; Cytokine; Ciliary neurotrophic factor; Tumor necrosis factor-α; MHCII; Microglia (Kahn, M.A. (685) 55)

AT_2 receptor; Autoradiography; OX-42; Immunohistochemistry; Kainic acid; Gliosis; Hippocampus; Angiotensin (Jöhren, O. (702) 153)

Edema
Closed-head injury; Memory; HU-211; Rat (Shohami, E. (674) 55)

Edinger–Westphal nucleus
Fos immunoreactivity; Ethanol; Hypothalamus; Amygdala; Parabrachial nucleus; Dehydration; Vasopressin (Chang, S.L. (679) 89)

EEG
REM sleep; PACAP; Temperature; Sleep; Rat (Fang, J. (686) 23)

Potassium conductance; Fourier analysis; Delta power; N^6-Cyclopentyladenosine; Sleep homeostasis; Sleep function (Benington, J.H. (692) 79)

Sex difference; Testosterone; Prenatal treatment; Interhemispheric correlation; Spectral power (Juárez, J. (694) 21)

Optical Imaging; State; RSA; Cell swelling; Theta; Cat (Rector, D.M. (696) 151)

EEG power spectrum
Spinal cord; Descending serotonergic pathway; Serotonin; $5\text{-}HT_{1A}$ and NMDA receptor; 8-OH-DPAT; AP-5; Sleep; Rat (Bjørkum, A.A. (692) 251)

Efferent
Medial zona incerta; *Phaseolus vulgaris* leucoagglutinin; Anterograde tract tracing (Wagner, C.K. (677) 229)

Olivary pretectal nucleus; *Phaseolus vulgaris* leucoagglutinin; Pupillary constriction (Klooster, J. (688) 34)

Olivary pretectal nucleus; Electron microscopy; *Phaseolus vulgaris* leucoagglutinin; Pupillary light reflex (Klooster, J. (688) 47)

Egr-1
2-Deoxyglucose; Development; Immediate–early gene; Immunohistochemistry; Learning; Odor exposure; Olfactory preference; Transcription factor (Johnson, B.A. (699) 192)

Eicosanoid
Aplysia; Lipoxygenase; FMRFa; Electrophysiology (Abe, M. (683) 200)

Astrocyte; Microglia; Arachidonic acid; Prostaglandin; Leukotriene (Matsuo, M. (685) 201)

CA1; Epilepsy; Excitotoxicity; Hippocampus; Input resistance (Owens Jr, J. (691) 223)

Ejaculatory behavior
Prenatal stress; Medial amygdala; MePV; MePD; Sexually dimorphic nucleus; Sexual differentiation; Rodent; Morphometry (Kerchner, M. (672) 251)

Electrically evoked response
Pyramidal cell; Intracellular recording; Postsynaptic potential; Directional tuning (Lohmann, H. (671) 275)

Electrical stimulation
Prefrontal cortex; Dopaminergic neurons; Synaptic plasticity; Sensitization (Tong, Z.-Y. (674) 63)

Analgesia; Pelvic nerve; Aδ fiber; C-fiber (Cueva-Rolón, R. (679) 267)

Microdialysis; Substantia nigra; γ-Aminobutyric acid; Internal capsule (Biggs, C.S. (684) 172)

Substantia innominata; Basalis nucleus of Meynert; Zona incerta; Cerebral blood flow; Autoradiography; Alzheimer's disease (Vaucher, E. (691) 57)

Breathing control; Fastigial nucleus; Vermis; Respiratory neuron; Phrenic neurogram; Kainic acid (Xu, F. (705) 53)

Electric fish
Somatostatin; Paracrine release; Autocrine function; Prepacemaker nucleus; Pacemaker nucleus; Biocytin; Gymnotiformes; *Apteronotus leptorhynchus* (Stroh, T. (674) 1)

Synaptic transmission; Transmitter release; Presynaptic Ca^{2+}-channel; Ca^{2+}-channel toxin; Presynaptic block; Motoneuron terminal; Electrocyte (Sierra, F. (683) 215)

Electrochemistry, in vivo
Ethanol; *N*-Methyl-D-aspartate; Nomifensine; Dopamine release; Uptake; Striatum (Lin, A.M.-Y. (696) 15)

Electroconvulsive shock
Magnetic stimulation; Depression; Apomorphine-induced stereotypy; Swim test; Seizure inhibition (Fleischmann, A. (699) 130)

Electroconvulsive shock-induced seizure
Evoked potential; Hippocampus (McIntyre Burnham, W. (698) 180)

Electroconvulsive stimulus (ECS)
Brain (rat); Dopamine; Neuropeptide; Noradrenaline; Serotonin (Stenfors, C. (698) 39)

Electroconvulsive therapy
Near-infrared spectrophotometry; Transcranial Doppler ultrasonography; Cytochrome *aa3* (Saito, S. (673) 93)

Electrocyte
Synaptic transmission; Transmitter release; Presynaptic Ca^{2+}-channel; Ca^{2+}-channel toxin; Presynaptic block; Motoneuron terminal; Electric fish (Sierra, F. (683) 215)

Electroencephalogram
Brain temperature; Djungarian hamster; Hypothermia; Torpor; Spectral analysis (Deboer, T. (670) 153)

Sleep–waking cycle; Acetylcholine; Microdialysis; Hippocampus; Theta wave; Cat (Marrosu, F. (671) 329)

Autospectral analysis; Coherence analysis; Harmaline; Inferior olivary activity (Barman, S.M. (671) 345)

Olfactory bulb; Kainic acid; Seizure; Propagation; Cerebral glucose utilization (Araki, T. (693) 207)

GABA-withdrawal syndrome; Baclofen; Cerebral cortex; Spike-and-wave; Epilepsy (Brailowsky, S. (702) 126)

Electroencephalographic threshold technique
Flumazenil; Diazepam; Lorazepam; Interaction; Hexobarbital anesthesia threshold (Korkmaz, S. (676) 371)

Electroencephalography
Adenosine; Power spectrum; Non-REM sleep; REM sleep; Sleep-homeostasis (Landolt, H.-P. (675) 67)

Epilepsy; Seizure; Hippocampus; Tetanus toxin; Slice, in vitro (Lee, C.L. (677) 97)

Electromyography
Muscle rigidity; Dexmedetomidine; Methylnaloxonium; Ketanserin; α Adrenergic receptor; Alfentanil; ST91 (Weinger, M.B. (669) 10)

Nociception; Hyperreflexia; Opiate; RIII reflex; Morphine (Yeomans, D.C. (670) 297)

Electron microscope
Rat; Spinal cord; Subarachnoid space; Capillary; Blood–brain barrier (Fujimoto, K. (702) 284)

Electron microscopic histochemistry
Calcium dependent ATPase; Sciatic nerve; Peripheral nerve; Axon; Schwann cell; Plasma membrane (Mizutani, Y. (693) 95)

Electron microscopy
Microvillar cell; Toxic insult; Methyl bromide; Nickel regeneration; Olfactory epithelium (Miller, M.L. (669) 1)

Alzheimer's disease; Phospholipase C-δ, Tau; Basic fibroblast growth factor; Solubilization (Shimohama, S. (669) 217)

Septum; Diagonal band of Broca; Basal forebrain; Monoamine; Learning and memory; Alzheimer's disease (Milner, T.A. (670) 121)

Alzheimer's disease; Amyloid precursor protein; β-Amyloid proteins (β/A4); β/A4 bearing carboxy-terminal peptide; Senile plaque; Neurofibrillary tangle; Al^{3+} (Chong, Y.-H. (670) 137)

Dorsal raphe nucleus; β-Endorphin; Nitric oxide synthase; Immunocytochemistry; Synapse (Wang, Q.-P. (684) 185)

Olivary pretectal nucleus; Efferent; *Phaseolus vulgaris* leucoagglutinin; Pupillary light reflex (Klooster, J. (688) 47)

Substance P; Synapse; Nucleus tractus solitarius; Paraventricular hypothalamic nucleus; WGA-HRP-colloidal gold; Retrograde tract tracing; Immunohistochemistry (Kawano, H. (689) 136)

Circadian rhythm; Reproduction; Neuroanatomy; Hypothalamus; Immunocytochemistry; Estrogen receptors (Watson, Jr., R.E. (689) 254)

Nitric oxide synthase; NADPH-diaphorase; Retina; Knock-out mice; BSPT-formazan; Membrane (Darius, S. (690) 231)

Immunohistochemistry; Neuron; Plasma membrane; Lysosome; Apolipoprotein E (Tooyama, I. (691) 235)

Substantia gelatinosa; Dorsal horn; Lamina I; Double labelling; Immunocytochemistry; Immunogold (Ma, W. (692) 99)

Corpus callosum; Sex difference; Genu; Myelinated axon; Unmyelinated axon; Myelin sheath (Mack, C.M. (697) 152)

Electron probe X-ray microanalysis
Peripheral nerve; Myelinated axon; Anoxia; Ouabain; Calcium; Na^+-Ca^{2+} exchanger; Na^+-K^+ ATPase (Lehning, E.J. (694) 158)

Electron spin resonance computer tomography
Brain imaging; Free radical; In vivo (Hiramatsu, M. (697) 44)

Electrophysiological recording
Adaptation; Temperature; Cold receptor; Menthol; Trigeminal nerve (Lundy Jr., R.F. (676) 169)

Electrophysiology
Oxytocin; Vasopressin; Coexistence; Milk-ejection reflex; Phenotype; Plasticity (Moos, F.C. (669) 309)

Circadian rhythm; Suprachiasmatic nucleus; Biological clock; Synchronization (Bouskila, Y. (670) 333)

γ-Hydroxybutyrate; Prefrontal cortex; Dopamine; Sleep; Narcolepsy; Alcohol; Abuse (Godbout, R. (673) 157)

Caudate-putamen; Globus pallidus; Sensorimotor integration; Auditory; Somatosensory; Rat; Multisensory response properties (Chudler, E.H. (674) 33)

Cortex; Brainstem; Hypoxia; Anoxia; In vitro; Brain slice (O'Reilly, J.P. (683) 179)

Aplysia; Lipoxygenase; Eicosanoid; FMRFa (Abe, M. (683) 200)

Acetylcholine; Muscarine; Atropine; slow EPSP; Alcohol; Intracellular recording; Eserine (Madamba, S.G. (685) 21)

Pre-sympathetic neuron; Bötzinger neuron; C1 catecholaminergic neuron; Extracellular recording; Cardiovascular control; Respiratory control (Kanjhan, R. (699) 19)

Arteriovenous; Brain slice; Hippocampus; Hypoglycemia; Hypoxia; Ischemia; Steal (Sekhon, L.H.S. (704) 107)

Electrophysiology, in vitro
Posterior cingulate cortex; Subiculum; Long-term potentiation/depression; Synaptic plasticity (Hedberg, T.G. (670) 181)

Thermoregulation; Nucleus reuniens; Hypothalamus; Thalamus temperature sensitive (Travis, K.A. (686) 17)

Electroretinogram
Metabotropic glutamate receptor; APB; L-2-Amino-4-phosphonobutyric acid; ON bipolar cell; Whole cell recording (Thoreson, W.B. (676) 93)

Elimination
Nerve growth factor; Diffusion; Controlled release; Brain interstitium; Polymer (Krewson, C.E. (680) 196)

ELISA
Alz 50 antibody; Paired helical filament; Tau protein; Tau synthetic peptide (Ksiezak-Reding, H. (697) 63)

Embryonal carcinoma
Amyloid precursor protein; Alternative splicing; P19; Differentiation; ASF/SF2; U2AF (Tsukahara, T. (679) 178)

Emetic drug
Nucleus of solitary tract; Pontine parabrachial nucleus; Learning; Conditioned taste aversion; Area postrema; c-Fos-like immunoreactivity (Swank, M.W. (673) 251)

Enalapril
Angiotensin II; Losartan; Paraventricular hypothalamus; Supraoptic nucleus; Lamina terminalis; Kininase II inhibitor; Captopril; Bradykinin antagonist (Hoe 140) (Rowland, N.E. (669) 73)

Endocytosis
Aminoglycoside; Hair cell; Immuno-gold; Cationic ferritin; Toxicity; Chicken (Hashino, E. (704) 135)

Endorphin
Methionine-enkephalin; Respiration; Hypoxia; Microdialysis; Newborn; Swine; Development (Yan, S. (687) 217)

Analgesia; Dynorphin; β-Endorphin; Enkephalin; Morphine; Naloxone; Opiate (Mansour, A. (700) 89)

β-Endorphin
Opioid; Hypothalamus; Medial preoptic area; Estrogen; Progesterone; Lordosis (Cheung, S. (675) 83)

Dynorphin; NK cell activity; Conditioning (Hsueh, C.-M. (678) 76)

Cell culture; Hypothalamus; Cyclic AMP; Progesterone; Estrogen (Yang, Z. (678) 251)

Dorsal raphe nucleus; Nitric oxide synthase; Immunocytochemistry; Synapse; Electron microscopy (Wang, Q.-P. (684) 185)

Met-enkephalin; Cerebrospinal fluid; Analgesia; Arcuate nucleus; High performance liquid chromatography; Periaqueductal gray; Opioid (Bach, F.W. (690) 167)

Cell culture; Hypothalamus; Cyclic AMP; Glutamate; *N*-Methyl-D-aspartate (Yang, Z. (692) 129)

Sex difference; Pain; Formalin test; Behavior; Rat (Aloisi, A.M. (699) 242)

Analgesia; Dynorphin; Endorphins; Enkephalin; Morphine; Naloxone; Opiate (Mansour, A. (700) 89)

Cerebrospinal fluid; Analgesia; Chromatography, high performance liquid; Pain; Spinal cord; Excitatory amino acids; Neurokinins (Bach, F.W. (701) 192)

Neuropeptide Y; Luteinizing hormone; Feeding; Hypothalamus; Opiate; Push–pull perfusion (Kalra, P.S. (705) 353)

β-Endorphin-(1-27)
Peptide blockers of excitatory opioid receptor function; [des-Tyr^1]dynorphin A-(1-13); Dorsal root ganglion neuron; Action potential shortening vs. prolongation; Bimodal agonist action of endogenous opioid (Shen, K.-F. (673) 30)

Endothelial cell
Blood–brain barrier; Taurine; Transport; Brain perfusion technique; Permeability (Benrabh, H. (692) 57)

NADPH-diaphorase; Ultrastructural localization; Neuron; Glial cell; Brain; Goldfish (Villani, L. (705) 332)

Endothelin
Endothelin ET_A receptor; Endothelin ET_B receptor; Immunoreactive endothelin-3; Rat retina (De Juan, J.A. (690) 25)

Vasoactive peptide; Chick embryo; Optic tectum (Hsu, L. (703) 72)

Endothelin-1
BQ-123, Cyclo (-D-Trp-D-Asp-Pro-D-Val-Leu-); Regional vascular resistance; IRL 1620, N-Suc-(Glu^9,Ala^{11,15})ET-1(8-21); Regional blood flow; Systemic hemodynamics; Sprague–Dawley rat; Central nervous system (Rebello, S. (676) 141)

Nitro-L-arginine; Cerebrospinal fluid; Cerebral ischemia/reperfusion (Spatz, M. (684) 99)

Endothelin B receptor mRNA
Dexamethasone; Brain; Endothelin mRNA; Down-regulation; Rat (Shibata, K. (692) 71)

Endothelin ET_A receptor
Endothelin; Endothelin ET_B receptor; Immunoreactive endothelin-3; Rat retina (De Juan, J.A. (690) 25)

Endothelin ET_B receptor
Endothelin; Endothelin ET_A receptor; Immunoreactive endothelin-3; Rat retina (De Juan, J.A. (690) 25)

Endothelin mRNA
Dexamethasone; Brain; Endothelin B receptor mRNA; Down-regulation; Rat (Shibata, K. (692) 71)

Endothelium
Superoxide dismutase; Indomethacin; Hypertension; Cranial window; *N*-Nitro-L-arginine (Riedel, M.W. (671) 21)

Blood–brain barrier; Microvessel; Tight junction; CNS inflammation (Biegel, D. (692) 183)

Nitric oxide synthase; Human cerebral artery; Ultrastructural localization; Translocation; Bradykinin (Fukuda, S.-i. (696) 30)

Endotoxin
Nitric oxide synthase; Corticotropin-releasing factor; Hypothalamus; Vasopressin (Lee, S. (705) 136)

Enediyne
G-protein; Neuroblastoma; Neurite outgrowth (Schor, N.F. (673) 175)

Energetic stress
Glutamate neurotoxicity; ATP content; *N*-Methyl-D-aspartate receptor; Kainate receptor (Marcaida, G. (695) 146)

Energy balance
Neuropeptide Y; Nicotine; Hypothalamus; Rat (Frankish, H.M. (694) 139)

Energy expenditure
Nycthemeral modulation; Lipolysis; Feeding behavior; Respiratory quotient (Ruffin, M.-P. (700) 121)

Enkephalin
Opioid receptor; Eye; Growth; Cell renewal; Zeta (ζ) receptor; Evolution; Neuropeptide; Immunocytochemistry (Zagon, I.S. (671) 105)

Basal forebrain; Cat; Substance P; Cholinergic system; Immunocytochemistry (Rieck, R.W. (672) 237)

Dopamine; Immediate-early gene; Behavioral sensitization; Hybridization, in situ; Nucleus accumbens (Wang, J.Q. (673) 262)

Sympathoadrenal system; Depolarization; Neuropeptide Y; Somatostatin; Plasticity (Maynard-Salgado, G. (676) 268)

Autonomic nervous system; Cardiovascular regulation; Corticotrophin releasing factor; Heart; Lateral hypothalamic area; Medulla oblongata; Neuropeptide Y; Oxytocin; Paraventricular hypothalamic nucleus; Pseudorabies virus; Raphe nuclei; Serotonin; Somatostatin; Stellate ganglion; Sympathetic nervous system (Jansen, A.S.P. (683) 1)

Rat strain; Dynorphin; Morphine dependence; Morphine withdrawal (Nylander, I. (683) 25)

Periaqueductal gray; Amygdala; Fear; Anxiety; Analgesia (Da Costa Gomez, T.M. (689) 21)

Cerebellar nucleus; Cervical cord; Cerebellospinal projection; Rat; Immunohistochemistry; Double labelling (Ikeda, M. (690) 225)

Inferior colliculus; Neuropeptide Y; Ascending auditory projections; Commissural fiber; Rat (Nakagawa, H. (690) 236)

Dynorphin; Morphine; Naltrexone; Striatum; Caudate-putamen; Nucleus accumbens-olfactory tubercle; Tolerance; Dependence (Trujillo, K.A. (698) 69)

Analgesia; Dynorphin; β-Endorphin; Endorphins; Morphine; Naloxone; Opiate (Mansour, A. (700) 89)

Enkephalin mRNA
Thyroid hormone; Dynorphin mRNA; Hippocampus; Kainic acid; Hybridization, in situ; Rat (Giardino, L. (687) 83)

Enterostatin
κ-Receptor; Naloxone; Feeding; Galanin; U50488; Fat intake (Barton, C. (702) 55)

Entopeduncular nucleus
Substantia nigra; Globus pallidus; c-*fos*; Dopamine antagonist; D_1 receptor; D_2 receptor (Wirtshafter, D. (670) 205)

MPTP; Parkinsonism; Globus pallidus; Dopamine (Rothblat, D.S. (705) 1)

Environment-specific sensitization
Stress; Corticosterone; Hypothalamic-pituitary-adrenal axis; Novel environment; Novelty; Sensitization; Context-specific sensitization; Rotational behavior; Locomotor activity; Rearing behavior; Rat (Badiani, A. (673) 13)

Conditioning; Context-specific sensitization; Novelty; Stress; Rotational behavior; Striatum; Dopamine; Rat (Badiani, A. (674) 291)

Enzyme histochemistry
NADPH-diaphorase; Nitric oxide; Brain; Goldfish (Villani, L. (679) 261)

Enzyme-linked immunosorbent assay
Alzheimer's disease; Amyloid β protein; Diffuse plaque; Amyloid angiopathy; Cerebellum; Immunocytochemistry (Tamaoka, A. (679) 151)

Epibatidine
Nicotinic acetylcholine receptor; Bay K 8644; Analgesia; Calcium channel (Bannon, A.W. (678) 244)

Epidermal growth factor
Transforming growth factor-α; Nervous system; Development; Subventricular zone; Cerebellum; Hybridization, in situ (Seroogy, K.B. (670) 157)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Dopamine; Mouse; GM1 ganglioside; Fibroblast growth factor (Schneider, J.S. (674) 260)

Parkinson's disease; Basic fibroblast growth factor; Glia; Neurotrophin; Ischemia; Neuronal survival; MPP^+ (Akaneya, Y. (704) 175)

Epilepsy
Metabotropic glutamate receptor; MCPG; 4-Aminopyridine; Amygdala; Ictal; Interictal; mGluR (Arvanov, V.L. (669) 140)

Kindling; Spontaneous seizure; Perforant path; Dentate gyrus; Amygdala (Milgram, N.W. (670) 112)

Kindling; Amygdala; Piriform cortex; Perirhinal cortex; Guinea-pig; Reserpine; Picrotoxin (Teskey, G.C. (672) 137)

α_1-Adrenergic receptor; α_{1A} and α_{1B} subtype; Noradrenaline; Cerebral cortex; Autoradiography; Seizure; Kindling (Gundlach, A.L. (672) 214)

Seizure; Hippocampus; Tetanus toxin; Electroencephalography; Slice, in vitro (Lee, C.L. (677) 97)

Timm stain; Human; Neuropathology; Hilus (Masukawa, L.M. (678) 65)

Protein kinase C; Kindling; Neuronal plasticity; Amygdala, Hippocampus (Akiyama, K. (679) 212)

Kindling; Seizure; Brainstem; Amygdaloid body; Rat (Chiba, S. (682) 50)

Recombinant human glial derived neurotrophic factor; rhGDNF; Seizure; Kainic acid; Hippocampus (Martin, D. (683) 172)

Nitric oxide; N^{ω}-Nitro-L-arginine methyl ester; Pentylenetetrazol; Kindling, Glutamate binding; Rat (Becker, A. (688) 230)

CA1; Eicosanoid; Excitotoxicity; Hippocampus; Input resistance (Owens Jr, J. (691) 223)

5-Hydroxytryptamine; Amygdalopiriform cortex; Intracerebral microdialysis; 5-HT_{1B} receptors (Kikvadze, I. (692) 111)

Seizure; Brain slice; Nipecotic acid; γ-Aminobutyric acid; Anticonvulsant (Honmou, O. (692) 273)

Atipamezole; Dexmedetomidine; Hippocampus; Kainic acid; Neuronal damage; Status epilepticus (Halonen, T. (693) 217)

Depolarization; Neurofilament protein; Potassium; Cytoskeleton; Trauma; Ischemia (Whitson, J.S. (694) 213)

N-Methyl-D-aspartate antagonist; Schizophrenia; Sexual maturation; Development (Sircar, R. (694) 318)

Osmotic effect; Cell swelling; Extracellular space; Hyponatremia; Spreading depression; Seizure; Neuron damage (Huang, R. (695) 195)

Seizure threshold; Rat; Iron; Hemoglobin; Amygdala (Löscher, W. (697) 197)

PKC; Kindling; Hybridization, in situ; Gene expression; mRNA; Plasticity (Kamphuis, W. (702) 94)

GABA-withdrawal syndrome; Baclofen; Electroencephalogram; Cerebral cortex; Spike-and-wave (Brailowsky, S. (702) 126)

Valproic acid; Anticonvulsant action; γ-Aminobutyric acid; Chloral hydrate; Ketamine; Fentanyl; Opioid (Löscher, W. (702) 133)

Epilepsy seizure
Imipenem; DBA/2 mouse; Excitatory amino acid antagonist; Anticonvulsant drug; Audiogenic seizure (De Sarro, G. (671) 131)

Epileptic activity
Corticosterone; Kainic acid; Hippocampus; RU486; GR-receptor (Talmi, M. (704) 97)

Epileptiform
Brain slice; Serotonin; 8-OH-DPAT; Bicuculline; Hippocampus; Intracellular (Salgado, D. (669) 176)

Epileptiform activity
Hippocampus; Slice culture; Zinc; 4-Aminopyridine; $GABA_A$ depolarizing potential; $GABA_A$ hyperpolarizing potential (Ricciardi, T.N. (680) 80)

Slow depolarizing after-potential; Seizure-like activity; Kynurenic acid; Cocaine; Tetrodotoxin; Veratridine (Tian, L.-M. (680) 164)

Epileptogenesis
Amygdala; Immunohistochemistry; Kindling; Rat (Ebert, U. (671) 338)

Presynaptic glutamate receptor; Glutamate release; Kindling; Seizures; (1S,3S)-ACPD; D-CPPene; D-CPP (Attwell, P.J.E. (698) 155)

Epinephrine
Midline thalamus; Cholera toxin subunit B; Immunohistochemistry; Phenylethanolamine *N*-methyltransferase; Behavior; Rat (Otake, K. (697) 17)

Epineurium
Neuropeptide; Neuron; Central/peripheral nervous system; Sensory cell; Eye; Statocyst; Mollusc; Snail; Immunocytochemistry; Hibernation (Kaufmann, W. (695) 125)

Epiplexus cell
Choroid epithelial cell; Nitric oxide synthase-like immunoreactivity; Lipopolysaccharide; Postnatal rat (Lu, J. (699) 275)

Epithelial cell
Guanylate cyclase; Ultracytochemistry; Porcine brain natriuretic peptide; Frog; Choroid plexus (Vagnetti, D. (705) 295)

EPR oximetry
Cerebral pO_2; Lithium phthalocyanine; Anesthesia; Ischemia (Liu, K.J. (685) 91)

EPSC
Extracellular Ca^{2+} concentration; Rat; Hippocampus; Serotonin; 5-HT_{1A} receptors; EPSP (Schmitz, D. (701) 249)

EPSP
Motoneuron; Trigeminal; Spindle afferent (Grimwood, P. (686) 259)

Motoneuron; Trigeminal; Spindle afferent (Grimwood, P. (689) 299)

Extracellular Ca^{2+} concentration; Rat; Hippocampus; Serotonin; 5-HT_{1A} receptors; EPSC (Schmitz, D. (701) 249)

slow EPSP
Acetylcholine; Muscarine; Atropine; Alcohol; Electrophysiology; Intracellular recording; Eserine (Madamba, S.G. (685) 21)

EPSP–spike relationship
Human brain slice; Facilitation; Feedback inhibition; Presynaptic inhibition (Uruno, K. (695) 163)

Equilibrium behavior
Inferior olivary complex; Olivocerebellar pathway; 3-Acetylpyridine; Learning; Rat (Jones, N. (697) 216)

ERK
Nerve growth factor; MAP kinase; PC12D cell; Neurite; Staurosporine (Sano, M. (688) 213)

Neurotrophic; Retrograde axonal transport; Phosphatidylinositol 3-kinase; PI 3-kinase; MEK; MEK kinase; GAP-43; Signal transduction (Johanson, S.O. (690) 55)

Escape
Interleukin-1; Interleukin-1 receptor antagonist; Intracerebroventricular; Rat; Stress; Fear; Learned helplessness (Maier, S.F. (695) 279)

Escape training
Amygdala; Basolateral complex; Inhibitory avoidance; Learning; Memory; Retention (Parent, M.B. (676) 235)

Eserine
Acetylcholine; Muscarine; Atropine; slow EPSP; Alcohol; Electrophysiology; Intracellular recording (Madamba, S.G. (685) 21)

E–S potentiation
Long-term potentiation; Dendritic membrane activation; Current–source density analysis; Hippocampus; Slice; CA1; Rat (Vida, I. (671) 1)

Estradiol
Aromatase; Zebra finch; Song control; Neuron (Merten, M.D.P. (671) 317)

c-fos; c-jun; Fos; Jun-B; Jun-D; Lordosis; Progesterone; Sexual behavior (Flanagan-Cato, L.M. (673) 53)

α_2-Adrenoceptor; Hypothalamus; Thermodynamics; Signal transduction; Receptor binding; RX821002; Oxymetazoline (Karkanias, G.B. (674) 26)

Oxytocin; Hypothalamic slice; Norepinephrine release; Progesterone (Etgen, A.M. (703) 242)

Estrogen
β-Endorphin; Opioid; Hypothalamus; Medial preoptic area; Progesterone; Lordosis (Cheung, S. (675) 83)

β-Endorphin; Cell culture; Hypothalamus; Cyclic AMP; Progesterone (Yang, Z. (678) 251)

Progesterone; Glia; Plasticity; Synaptogenesis; Synapse shedding (Klintsova, A. (690) 269)

Dopamine; Sex; Lordosis; Female rat; Progesterone; Microdialysis (Pfaus, J.G. (693) 21)

Progesterone; Progesterone-3-BSA receptor; G protein; Preoptic area; Medial basal hypothalamus (Caldwell, J.D. (693) 225)

Acetylcholine; AF-DX 116; Brain slice; Carbachol; 4-DAMP; M3; McN-A-343; Muscarinic receptor subtype; Oxotremorine-M; *p*-F-HHSiD; Pirenzepine; Single-unit activity (Kow, L.-M. (694) 29)

Caudate nucleus; Antiestrogen; Nigrostriatal; Uterus (McDermott, J.L. (698) 248)

CA1 stratum radiatum; Schaffer collateral; Hippocampus; Light cycle; Sex difference (Warren, S.G. (703) 26)

17β-Hydroxysteroid dehydrogenase; Rat brain; Glial cell; Neurosteroid (Pelletier, G. (704) 233)

Estrogen receptor
Aromatase; Aging; Quail; Sexual behavior (Dellovade, T.L. (674) 181)

Arcuate nucleus; Galanin; Immunocytochemistry; Female rat (Horvath, T.L. (675) 321)

Gonadotropin-releasing hormone; Preoptic area; Hypothalamus; Rhesus macaque (Sullivan, K.A. (685) 198)

Immunocytochemistry; Hypothalamus (Sisk, C.L. (688) 198)

Circadian rhythm; Reproduction; Neuroanatomy; Hypothalamus; Immunocytochemistry; Electron microscopy (Watson, Jr., R.E. (689) 254)

Brain; Sexual differentiation; Autoradiography (Kühnemann, S. (691) 229)

Facial nucleus; Newborn rat; Aromatization (Orikasa, C. (693) 112)

Hippocampus; Aging; Glucocorticoid receptor; Thyroid hormone receptor; Androgen receptor; Hybridization, in situ histochemistry (Tohgi, H. (700) 245)

Estrous cycle
Norepinephrine; Dopamine; Hypothalamus; Aging; Push–pull perfusion (ThyagaRajan, S. (689) 122)

Area postrema; Glucoprivation; Metabolic fuel; Nucleus of the solitary tract; 2-Deoxy-D-glucose (Schneider, J.E. (698) 107)

Estrous female odor
Odor preference; Neurosteroid; Pregnenolone sulfate; *N*-Methyl-D-aspartate receptor; Male sexual interest; Olfactory response; Anxiety (Kavaliers, M. (682) 222)

Estrus
Vole; Female; Olfaction; c-*fos*; Accessory olfactory system (Moffatt, C.A. (677) 82)

Ethanol
Central nervous system neuron; Fura-2; Glutamate receptor; Neuronal development; Intracellular calcium; Granule neuron (Gruol, D.L. (673) 1)

Hypoxia/hypoglycemia; 2-Deoxyglucose; Chronic treatment; Withdrawal syndrome; Tolerance (Shibata, S. (673) 320)

N-Methyl-D-aspartate; Rat hippocampus; Alcohol withdrawal; Excitotoxicity (Davidson, M. (674) 91)

Glutamate release; Aspartate release; Hippocampus; [^{3}H]Noradrenaline release (Sepúlveda, C. (674) 104)

Fos immunoreactivity; Hypothalamus; Amygdala; Edinger–Westphal nucleus; Parabrachial nucleus; Dehydration; Vasopressin (Chang, S.L. (679) 89)

Dopamine neuron; Withdrawal; Depolarization block; Anesthesia (Diana, M. (682) 29)

State-dependent learning; Diazepam; Muscimol; Benzodiazepine/$GABA_A$ receptor complex; Rat (Nakagawa, Y. (686) 70)

Purkinje neuron; Cerebellum; Alcohol; ACPD; Quisqualate; Glutamate; Culture (Netzeband, J.G. (688) 105)

Serotonin; Norepinephrine; Dopamine; Monoamine metabolite; 5,7-Dihydroxytryptamine; Alcohol drinking; Brain region; Dorsal raphe nucleus; Median raphe nucleus; Sprague–Dawley rat (Adell, A. (693) 70)

N-Methyl-D-aspartate; Nomifensine; Dopamine release; Uptake; Striatum; Electrochemistry, in vivo (Lin, A.M.-Y. (696) 15)

$GABA_A$ receptor; γ_{2L} subunit; Antipeptide serum; Rat; Mouse (San Juan, I. (698) 209)

Hippocampus; *N*-Methyl-D-aspartate; Withdrawal; CGP39551; Magnesium; Field potential (Ripley, T.L. (699) 1)

Neurosteroid; Long-term potentiation; Dehydroepiandrosterone sulfate; *N*-Methyl-D-amphetamine; $GABA_A$; AMPA (Randall, R.D. (701) 238)

Ethanolamine plasmalogen
Alzheimer's disease; Brain; Membrane; Lipid (Ginsberg, L. (698) 223)

Ethanol neurotoxicity
Intracellular free calcium; Neurotrophin; Septal culture; Indo-1; NGF (Webb, B. (701) 61)

Ethmoid nucleus
Thalamostriatal fiber; CM/Pf complex; Central lateral nucleus; Posterior thalamic group; Striatal matrix (Deschênes, M. (701) 288)

***N*-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline**
Cocaine; Sulpiride; SCH-23390; Dopamine receptor; D1-like; D2-like; Receptor occupancy; Locomotor activity; Stereotypy; Nucleus accumbens (Neisewander, J.L. (671) 201)

Dopamine receptor; Substantia nigra; Behaviour; Autoradiography (Lee, C.Y. (681) 205)

[^{3}H]7-OH-DPAT; [^{3}H]Spiperone; D_3 dopamine receptor; Nucleus accumbens; Olfactory tubercle; Striatum; Rat brain (Levant, B. (698) 146)

Ethyl-β-Carboline-3-Carboxylate
Bicuculline; γ-Aminobutyric acid; L-Glutamate; Muscimol; Picrotoxin; Tyrosine hydroxlase and phenethyl-*N*-methyl transferase immunoreactive cell; Vasodepressor neuron (Gatti, P.J. (693) 80)

5′-*N*-Ethylcarboxamidoadenosine
Naloxone; Aminophylline; Morphine; Serotonin; Norepinephrine; Antinociception; Tail-flick; Analgesia (Yang, S.-w. (673) 170)

Ethylestrenol
Pregnenolone sulfate; Anabolic steroid; Passive avoidance response; Memory (Isaacson, R.L. (689) 79)

Etorphine
Naloxone-precipitated withdrawal effects; Opioid excitatory supersensitivity; Dorsal-root ganglion neuron; Excitatory opioid receptor antagonist (Crain, S.M. (694) 103)

Peptide antagonist excitatory opioid receptor; Dual opioid inhibitory-agonist/excitatory-antagonist; Action potential shortening vs. prolongation (Shen, K.-F. (701) 158)

Evans blue
HU-211; Photochemical cortical infarction; Blood–brain barrier (Belayev, L. (702) 266)

Event-related potential (P300)
Nucleus basalis magnocellularis; Nodosal ganglion; Autotransplantation; Bifemelane hydrochloride; Cholinergic marker (Ikeda, K. (688) 171)

Evoked field potential
Olfactory bulb; Noradrenaline; Push–pull perfusion; Rat (Mouly, A.-M. (681) 47)

Evoked otoacoustic emission
Acoustic reflex; Medial olivocochlear efferent; Vestibular neurotomy (Giraud, A.L. (705) 15)

Evoked potential
Auditory; Visual; Polysensory (Barth, D.S. (678) 177)

Rat; Olfaction; Dentate gyrus; Hippocampus; Fast wave; Kainic acid; Colchicine (Heale, V.R. (690) 157)

Auditory cortex; Somatosensory cortex; Gamma; Spontaneous EEG (MacDonald, K.D. (694) 1)

Electroconvulsive shock-induced seizure; Hippocampus (McIntyre Burnham, W. (698) 180)

N-Methyl-D-aspartate; γ-Aminobutyric acid; Glutamate; Cerebral cortex; Development; Rat; Voltage clamp (Metherate, R. (699) 221)

Evoked response
Somatosensory cortex; Magnetoencephalography; Median nerve; Ulnar nerve; Human (Forss, N. (685) 68)

Evoked rhythm
α Rhythm; Magneto-encephalography; Brain spontaneous activity; Brain rhythm functional correlate; Brain frequency responsiveness (Narici, L. (703) 31)

Evolution
Opioid receptor; Eye; Enkephalin; Growth; Cell renewal; Zeta (ζ) receptor; Neuropeptide; Immunocytochemistry (Zagon, I.S. (671) 105)

Excitability
Dentate gyrus; CA1 pyramidal neuron; Inhibition; TPEN (Gordey, M. (691) 125)

Vasopressin; Vasopressin(4–8); Hippocampus; Transmission; Potentiation (Chepkova, A.N. (701) 255)

Excitatory amino acid
Human neocortical slice; *N*-Methyl-D-aspartate; α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid; Extracellular calcium concentration; Cortical field potential (Lücke, A. (671) 222)

Behavioral sensitization; Medial prefrontal cortex; Dopamine; Nucleus accumbens; Glycine B receptor; Locomotion (Morrow, B.A. (673) 165)

Concussion; Ionic flux; Lactate; Glucose metabolism; Microdialysis; Glycolysis (Kawamata, T. (674) 196)

Convulsion; Hyperbaric oxygen; γ-Aminobutyric acid; Ammonia; Brain; Mouse (Mialon, P. (676) 352)

Nociception; Hyperalgesia; Allodynia; Spinal cord; Chronic pain; Neural graft; Chromaffin cell (Siegan, J.B. (680) 88)

6-Cyano-7-nitroquinoxaline-2,3-dione; 2,3-Dihydroxy-6-nitro-7-sulfamoylbenzo(f)quinoxaline; Kynurenate; Brain slice; Lateral olfactory tract (Yang, Q.Z. (680) 207)

Glutamate receptor; Immunohistochemistry; Dentate gyrus; Ammon's horn (Blümcke, I. (682) 239)

Aminopeptidase; Aging; β-Amyloid peptide; Neuropeptide (Iribar, C. (687) 211)

Metabotropic glutamate receptor; Magnesium; Autoreceptor; Positive feedback; Spinal cord (Gotani, H. (689) 281)

N-Methyl-D-aspartic acid; Dopamine; Glutamate; Opiate (Livezey, R.T. (692) 93)

Calcium channel; ω-Conopeptide MVIIC; Conopeptide; Brain ischemia; Hypothermia; Microdialysis; Rabbit (Wu, G. (692) 118)

Modafinil; Brain metabolism; Inositol; Creatine-phosphocreatine; ^{1}H-NMR spectroscopy (Piérard, C. (693) 251)

Transfection; Antisense oligonucleotide; Calcium-activated protease; Synaptic dysfunction; Excitotoxicity; Neuropathology (Bednarski, E. (694) 147)

Reticulospinal neurone; Trigeminal input; Glycine; Locomotion; Lamprey (Viana Di Prisco, G. (695) 76)

Lithium; Passive avoidance; Neurotoxicity; Basal forebrain (Pascual, T. (695) 289)

N-Methyl-D-aspartate antagonist; Dizocilpine maleate; MK-801; Cingulate cortex; Neurotoxicity; Neuropathology; Rat (Fix, A.S. (696) 194)

Morphine; Withdrawal syndrome; Rostral ventrolateral medulla; Voltammetry, in vivo; Naloxone; Opioid (Wang, L. (697) 130)

β-Endorphin; Cerebrospinal fluid; Analgesia; Chromatography, high performance liquid; Pain; Spinal cord; Neurokinins (Bach, F.W. (701) 192)

Acromelic acid; Kainic acid; AMPA; Glutamate receptor; Neurotoxicity; Spastic paraplegia; Spinal cord (Kwak, S. (702) 61)

Spinal cord; Frog; Serotonin; 5-HT_3 receptor; *N*-Methyl-D-aspartate receptor (Holohean, A.M. (704) 184)

Excitatory amino acid antagonist
Imipenem; DBA/2 mouse; Anticonvulsant drug; Epilepsy seizure; Audiogenic seizure (De Sarro, G. (671) 131)

Excitatory amino acid receptor
Alcoholism; Alcohol, ethyl; Receptor, glutamate; Receptor, AMPA; Receptor, kainate; Schizophrenia; Human postmortem tissue; NCAM; Tau; Western blotting; Immunoreactivity (Breese, C.R. (674) 82)

Autonomic nervous system; Ventilation; Dorsal horn (Wong, M.K.C. (683) 149)

Excitatory opioid receptor antagonist
Naloxone-precipitated withdrawal effects; Opioid excitatory supersensitivity; Dorsal-root ganglion neuron; Etorphine (Crain, S.M. (694) 103)

Excitatory post-synaptic potential
Long-term potentiation; α-Tocopherol; Hippocampal slice; CA1 neuron; Vitamin E-deficiency (Xie, Z. (681) 193)

Synaptic potential; Osmotic pressure; Cell swelling; Sodium deficiency; Spreading depression; Seizure (Chebabo, S.R. (695) 203)

Excitatory synapse
δ-Opioid receptor; Reinforcement; Synaptic vesicle recycling; Presynaptic release (Svingos, A.L. (700) 25)

Excitatory synaptic transmission
Dopamine; Sulpiride; SKF-83566; Neostriatum; Rat (Hsu, K.-S. (690) 264)

Excitatory transmission
Hippocampus; Inhibitory transmission; Metabotropic glutamate receptor; Presynaptic modulation (Ohno-Shosaku, T. (705) 337)

Excitototoxicity
Alzheimer's disease; Calcium; Colchicine; Fura-2; Glutamate; Microtubule; Taxol (Furukawa, K. (689) 141)

Excitotoxicity
Glutamate; Tetrodotoxin; Synaptic transmission; γ-Aminobutyric acid; *N*-Methyl-D-aspartate (Yoon, K.-W. (669) 320)

Traumatic brain injury; Sodium channel blocker; Glutamate release inhibitor; Neuronal damage; Motor deficit (Sun, F.-Y. (673) 133)

N-Methyl-D-aspartate; Ethanol; Rat hippocampus; Alcohol withdrawal (Davidson, M. (674) 91)

Quinolinic acid; Tyrosine hydroxylase; L-NAME; Nitric oxide synthase (Connop, B.P. (676) 124)

Cell culture; Cerebral cortex; Free radical; Glutamate; Head trauma; Lipid peroxidation (Regan, R.F. (682) 144)

Glutamate; Neurotoxicity; Malonate; Microdialysis; γ-Aminobutyric acid (Messam, C.A. (684) 221)

CGP-39653; Motor neuron; NMDAR1 subunit; Nociception; Peripheral neuropathy; Dorsal horn; Neural transplant (Hama, A.T. (687) 103)

Heat shock; Phencyclidine; DNQX; AMPA receptor; Cortex; Ketamine; Rat (Sharp, J.W. (687) 114)

Glutamate; AMPA; Kainate; Cell culture; Spinal cord; Neurotoxicity; Ca^{2+}; Calcium (Yin, H.-z. (689) 265)

Glutamate; *N*-Methyl-D-aspartate; Indo-1; Cell culture; Confocal microscopy (Limbrick Jr., D.D. (690) 145)

β-Amyloid; Neurotoxicity; Glutamate; Neurons; Astrocyte; Hippocampal cell culture; Cortical cell culture; Alzheimer's disease (Gray, C.W. (691) 169)

CA1; Eicosanoid; Epilepsy; Hippocampus; Input resistance (Owens Jr, J. (691) 223)

Transfection; Antisense oligonucleotide; Calcium-activated protease; Excitatory amino acid; Synaptic dysfunction; Neuropathology (Bednarski, E. (694) 147)

N-Methyl-D-aspartate; Neurodegeneration; Arcuate nucleus; Neuronal culture; Microdialysis; Amino acid (Puka-Sundvall, M. (705) 65)

Felbamate; *N*-Methyl-D-aspartate receptor; Strychnine-insensitive glycine antagonist; Neuroprotection; Calcium; Cortical neuron (Kanthasamy, A.G. (705) 97)

Excitotoxin
Limbic system; Subiculum; Kainate receptor; Papez circuit; Silver staining; *Macaca fascicularis* (Schmued, L.C. (695) 64)

N-Methyl aspartic acid; Calcification; Basal forebrain; Cholinergic; Alzheimer's disease; Down's syndrome (Stewart, G.R. (695) 81)

Excrescence
Chronic restraint stress; Dendritic spine; Hippocampus (Sunanda, (694) 312)

Exocytosis
Rat chromaffin cell; Ca^{2+} current; Membrane capacitance measurement; Ca^{2+} channel antagonist (Kim, S.J. (675) 289)

Exogenous compound
Recovery, in vivo; Calibration, in vivo; Medial prefrontal cortex (Pan, W.H.T. (686) 249)

Exogenous control
c-*fos* gene; Metallothionein promoter; NRK cell; Nf-1 cell; Transplantation; Angiogenesis; Neovascularization; Gene therapy (Asakuno, K. (702) 23)

Experience effect
Mouse; 5-Azacytidine; Developmental alteration; Brain damage; Hyperactivity; Parental behavior; Naive female (Londei, T. (677) 61)

Experimental
Diabetes mellitus; Rat; Streptozocin; Hypothalamus; Somatotropin-releasing hormone; Somatostatin (Leidy, Jr., J.W. (681) 84)

Experimental allergic encephalomyelitis
Handling; Gentling; Neonatal period; Maternal separation; Stress; DA rat (Laban, O. (676) 133)

Experimental cancer
Anorexia; Tumor; Neuropeptide Y; Adenylate cyclase (Chance, W.T. (691) 180)

Exploration
Cerebellum; Spatial orientation; Anxiety; Inhibition (Monnier, C. (702) 169)

Expression
GAP-43; Neuromodulin; B-50; *Xenopus laevis*; Phylogeny; Tetraploidy (Shain, D.H. (697) 241)

Corticotropin releasing factor binding protein; Neuronal cell; Astrocytic cell (Behan, D.P. (698) 259)

External urethral sphincter
Glutamatergic transmission; Urethane; Decerebrate; Urinary bladder; Cystometrogram (Yoshiyama, M. (691) 185)

Extinction
Medial geniculate; Amygdala; Conditioning; Habituation; Heart rate; Rabbit (McEchron, M.D. (682) 157)

Extracellular Ca^{2+} concentration
Rat; Hippocampus; Serotonin; $5\text{-}HT_{1A}$ receptors; EPSP; EPSC (Schmitz, D. (701) 249)

Extracellular calcium concentration
Human neocortical slice; Excitatory amino acid; *N*-Methyl-D-aspartate; α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid; Cortical field potential (Lücke, A. (671) 222)

Extracellular field potential
Bicuculline methiodide; γ-Aminobutyric acid; Magnesium; Potassium; Seizure (Watson, P.L. (700) 227)

Extracellular fluid transport
Neuropeptide Y; Fos; Fourth ventricle; Paraventricular nucleus; Forebrain; Volume transmission (Xu, B. (698) 227)

Extracellular K^+
Medicinal leech; Glial cell; Retzius neurone; Intracellular Ca^{2+}; Ca^{2+} channel; Menthol (Hochstrate, P. (696) 231)

Extracellular matrix
Chondroitin proteoglycan; *Vicia villosa* agglutinin (Bertolotto, A. (673) 344)

Astrocyte; Axon regeneration; Protease; Adhesion molecule (Fok-Seang, J. (689) 207)

Amygdala; *Macaca mulatta*; *Wisteria floribunda* agglutinin; Calcium-binding protein; γ-Aminobutyric acid; Double labelling (Härtig, W. (698) 265)

Extracellular recording
Pre-sympathetic neuron; Bötzinger neuron; C1 catecholaminergic neuron; Electrophysiology; Cardiovascular control; Respiratory control (Kanjhan, R. (699) 19)

Extracellular single unit recording
Accessory olfactory bulb; Synaptic response; Glutamate antagonist; Mitral cell (Dudley, C.A. (675) 208)

Extracellular space
Osmotic effect; Cell swelling; Hyponatremia; Spreading depression; Seizure; Epilepsy; Neuron damage (Huang, R. (695) 195)

Extrageniculate visual system
Suprageniculate nucleus; Superior colliculus; Bilateral projection; WGA–HRP; Fluorescent tracer; Double-labeled neuron; Light and electron microscopy; Cat (Katoh, Y.Y. (669) 298)

Extra-genomic
γ-Aminobutyric acid; Steroid hormone; Membrane; Hippocampus; Perforant pathway; Progesterone (Frye, C.A. (696) 113)

Extrahypothalamic
Corticotropin-releasing hormone; Brain cell culture; CRH receptor; Cyclic AMP; Anterior pituitary; Modulation; Corticosterone; Protein kinase C; Dexamethasone; Vasopressin; Glucocorticoid (Kapcala, L.P. (678) 207)

Extrapyramidal symptom
Dopamine; Neuroleptic; RWJ 37796; Striatum; Supersensitivity (Shapiro, L.A. (677) 250)

Extrastriate cortex
Corticotectal projection; Striate cortex; Visual field representation; Retinotectal projection; Horseradish peroxidase (Amer-Ferrer, G. (695) 283)

Ex vivo gene therapy
Retrovirus; Gene transfer; Neural transplantation; Rat; Tyrosine hydroxylase; 6-Hydroxydopamine (Yoshimoto, Y. (691) 25)

Eye
Opioid receptor; Enkephalin; Growth; Cell renewal; Zeta (ζ) receptor; Evolution; Neuropeptide; Immunocytochemistry (Zagon, I.S. (671) 105)

Neuropeptide; Neuron; Central/peripheral nervous system; Sensory cell; Epineurium; Statocyst; Mollusc; Snail; Immunocytochemistry; Hibernation (Kaufmann, W. (695) 125)

F

Facial motor neuron
NOS; NADPH-d; NOS-inhibitor; Facial nerve avulsion; Quantitative analysis; Neurodestruction (Ruan, R.-S. (698) 163)

Facial nerve avulsion
NOS; NADPH-d; NOS-inhibitor; Facial motor neuron; Quantitative analysis; Neurodestruction (Ruan, R.-S. (698) 163)

Facial nucleus
Newborn rat; Estrogen receptor; Aromatization (Orikasa, C. (693) 112)

Facilitation
Inhibition; Locomotion; Passive; Cycling (Misiaszek, J.E. (677) 69)

Human brain slice; EPSP–spike relationship; Feedback inhibition; Presynaptic inhibition (Uruno, K. (695) 163)

False transmitter
Colocalization; Neuroendocrinology; Interaction; Cotransmission; Superfluous transmitter; Periventriculo-hypophyseal (Vanhatalo, S. (687) 205)

Familial amyotrophic lateral sclerosis
Transgenic mice; Cu,Zn superoxide dysmutase (SOD); Motor neuron; Spinal cord; Brainstem; Peripheral nerve (Dal Canto, M.C. (676) 25)

Fast axoplasmic transport
F344 rat; Sciatic nerve; Aging (Jacob, J.M. (699) 154)

Fast Blue
Tyrosine hydroxylase; Stria terminalis; Limbic system; Catecholamine; Nucleus tractus solitarius (Terenzi, M.G. (672) 289)

Fast-blue labeling
Neural graft; Growth restoration; Snail (Gomot, A. (682) 127)

Fast cyclic voltammetry
Dopamine; Cocaine; Sensitization; Nucleus accumbens; Ventral tegmental area; Rat (Williams, J.E.G. (678) 225)

Shell; Core; Rostral pole; D_2 autoreceptor; Neuronal uptake; Dopamine (Wieczorek, W. (699) 171)

Fastigial nucleus
Breathing control; Vermis; Respiratory neuron; Phrenic neurogram; Electrical stimulation; Kainic acid (Xu, F. (705) 53)

Fast inhibitory postsynaptic current
Whole-cell patch; Slice; Hippocampus; Inhibition; $GABA_A$; Chloride accumulation; Disinhibition (Ling, D.S.F. (670) 142)

Fast wave
Rat; Olfaction; Dentate gyrus; Hippocampus; Evoked potential; Kainic acid; Colchicine (Heale, V.R. (690) 157)

Fat intake
κ-Receptor; Enterostatin; Naloxone; Feeding; Galanin; U50488 (Barton, C. (702) 55)

Fatty acid
Brain; Arachidonate; Docosahexaenoate; Palmitate; Deoxyglucose; Quantitative autoradiography; Visual system; Orbital enucleation; Rat; Lipid; Phospholipid; Glucose; Vision; Neuroplasticity (Wakabayashi, S. (679) 110)

Fayoumi epileptic chicken
Genetic reflex epilepsy; Audiogenic seizure; Photogenic seizure; Neural chimera (Fadlallah, N. (675) 55)

Fear
Periaqueductal gray; Amygdala; Anxiety; Analgesia; Enkephalin (Da Costa Gomez, T.M. (689) 21)

Interleukin-1; Interleukin-1 receptor antagonist; Intracerebroventricular; Rat; Stress; Escape; Learned helplessness (Maier, S.F. (695) 279)

Reticular formation; Cyclic AMP; Startle; Amygdala (De Lima, T.C.M. (700) 59)

Febrile tolerance
Interleukin-1β; Organum vasculosum laminae terminalis (Nakamori, T. (675) 103)

Feedback inhibition
In vivo; Hippocampus; Dentate gyrus; Feedforward inhibition (Burdette, L.J. (680) 53)

Human brain slice; Facilitation; EPSP–spike relationship; Presynaptic inhibition (Uruno, K. (695) 163)

Field IPSP; $GABA_A$ receptor; Long-term potentiation; Feedforward inhibition; Laminar profile; Theta rhythm; Long-term depression; LTP; LTD (Arai, A. (704) 298)

Feedforward inhibition
In vivo; Hippocampus; Dentate gyrus; Feedback inhibition (Burdette, L.J. (680) 53)

Field IPSP; $GABA_A$ receptor; Long-term potentiation; Feedback inhibition; Laminar profile; Theta rhythm; Long-term depression; LTP; LTD (Arai, A. (704) 298)

Feeding
Peptide; Insulin; NPY; Glucose; Immediate-early gene (Lambert, P.D. (670) 59)

Mu-opioid; Kappa-opioid; Delta-opioid; DAMGO; U-50,488H; DPDPE; Amphetamine; VTA; Mesoaccumbens dopaminergic system; Drinking; Hyperdipsia; Gnawing; Activity; VTA (Badiani, A. (670) 264)

Ventral tegmental area; Opioid; DAMGO; DPDPE; μ; δ (Noel, M.B. (673) 304)

Opioid; Dietary obesity; Mu receptor; Delta receptor; Kappa receptor; Rat (Cole, J.L. (678) 168)

Dynorphin; Diabetes; Streptozotocin (Berman, Y. (685) 129)

Opioid; Mu-opioid receptor; CTOP; Ventral tegmental area; Nucleus accumbens; Drinking; Locomotor activity; Rat (Badiani, A. (690) 112)

Vagus; Medulla oblongata; Microdialysis; Raphe (Mohammed, J.R. (695) 100)

κ-Receptor; Enterostatin; Naloxone; Galanin; U50488; Fat intake (Barton, C. (702) 55)

Neuropeptide Y; β-Endorphin; Luteinizing hormone; Hypothalamus; Opiate; Push–pull perfusion (Kalra, P.S. (705) 353)

Feeding behavior
Insulin; Microdialysis; Paraventricular nucleus; Ventromedial hypothalamus; Satiety (Orosco, M. (671) 149)

Nitric oxide; Clonidine HCl; L-N^G-nitroarginine methyl ester HCl (LNNA); Chicken (Choi, Y.-H. (699) 161)

Nycthemeral modulation; Lipolysis; Energy expenditure; Respiratory quotient (Ruffin, M.-P. (700) 121)

Felbamate
N-Methyl-D-aspartate receptor; Strychnine-insensitive glycine antagonist; Excitotoxicity; Neuroprotection; Calcium; Cortical neuron (Kanthasamy, A.G. (705) 97)

Female
Vole; Estrus; Olfaction; c-*fos*; Accessory olfactory system (Moffatt, C.A. (677) 82)

Cocaine; Self-administration; Social stress; Aggression; Sex difference; Rat (Haney, M. (698) 46)

Female rat
Arcuate nucleus; Galanin; Estrogen receptor; Immunocytochemistry (Horvath, T.L. (675) 321)

Dopamine; Sex; Lordosis; Estrogen; Progesterone; Microdialysis (Pfaus, J.G. (693) 21)

Fenfluramine
Serotonin release; Culture; 3,4-Methylenedioxyamphetamine; *p*-Chloroamphetamine; Raphe; Nimodipine; Conotoxin; Fluoxetine (Wichems, C.H. (695) 10)

Fentanyl
Valproic acid; Epilepsy; Anticonvulsant action; γ-Aminobutyric acid; Chloral hydrate; Ketamine; Opioid (Löscher, W. (702) 133)

Ferrotransferrin receptor
Iron uptake; Autoradiography; Parkinson's disease; Human; MPTP (Faucheux, B.A. (691) 115)

Ferrous citrate
Manganese; Lipid peroxidation; Neurotoxicity; Dopamine; Nigrostriatal neuron; Free radical; Mn-SOD (Sziráki, I. (698) 285)

Fetal CNS
Human neurodevelopment; Neural cell differentiation; Signal transduction (Larocca, J.N. (701) 135)

Fetal transplant
Parkinson's disease; Dopamine neuron; Levodopa; Functional recovery (Steece-Collier, K. (676) 404)

Fetus
Sheep; Calcium; Ontogeny; Brain; Glucocorticoid (McDonald, T.J. (675) 303)

Fever
Brain mapping; Hypothalamus; Thalamus; Paraventricular nucleus; Microinjection; Nociception; Anorexia (Sellami, S. (694) 69)

Cyclooxygenase-2; Lipopolysaccharide; Brain; Hybridization, in situ; Prostaglandin (Cao, C. (697) 187)

Lipopolysaccharide; Rabbit; α_1-Adrenoceptor; α_2-Adrenoceptor subtype; Sympathetic nervous system; Norepinephrine (Bencsics, A. (705) 302)

Fever mechanism
Neonate; Pyrogen; Prostaglandin; Leukotriene; Platelet activating factor; Blood-brain barrier; Organum vasculosum laminae terminalis (Coceani, F. (700) 191)

FGF-2
FGFR1; Rat brain; Anatomy; Central nervous system; Immunohistochemistry; Hybridization, in situ (Gonzalez, A.M. (701) 201)

bFGF
Retinal pigment epithelium; Development; Transdifferentiation; Growth factor; Tissue culture; Neural retina (Zhao, S. (677) 300)

rhbFGF
rhNGF; Dose–response; Cholinergic degeneration; Neurotrophic factor; Fimbria-fornix; Transection; Hippocampus (Emmett, C.J. (673) 199)

FGFR1
FGF-2; Rat brain; Anatomy; Central nervous system; Immunohistochemistry; Hybridization, in situ (Gonzalez, A.M. (701) 201)

Fibrillogenesis
Apolipoprotein E; Apolipoprotein J; Alzheimer's disease; Down's syndrome; β-Amyloid; Immunocytochemistry; Immunoelectron microscopy (Kida, E. (685) 211)

Fibroblast
LIF; IL-1β; Axotomy; Receptor; Substance P; Sympathetic; Regulation; Nuclease protection assay; mRNA; Schwann cell (Ludlam, W.H. (685) 12)

Hypoxia; Immediate-early response gene; c-*fos*; Pheochromocytoma-12 cell; Nerve growth factor; Neuroblastoma cell (Prabhakar, N.R. (697) 266)

Fibroblast growth factor
1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Dopamine; Mouse; GM1 ganglioside; Epidermal growth factor (Schneider, J.S. (674) 260)

Fibroblast growth factor, basic (bFGF)
Magnetic resonance imaging (MRI); Cerebral ischemia (Roberts, T.P.L. (699) 51)

Field IPSP
$GABA_A$ receptor; Long-term potentiation; Feedforward inhibition; Feedback inhibition; Laminar profile; Theta rhythm; Long-term depression; LTP; LTD (Arai, A. (704) 298)

Field potential
Optic tectum; Pretectotectal inhibition; Neuropeptide Y; Cane toad (Schwippert, W.W. (669) 150)

NBQX; Selective AMPA receptor antagonist; Long-term potentiation; In vivo (Sato, K. (683) 279)

Spermine; Polyamine; Hippocampal slice; CA1; Paired-pulse facilitation; Ca^{2+} channel (Ferchmin, P.A. (689) 189)

Suprachiasmatic nucleus; Long-term potentiation; Circadian rhythm (Nishikawa, Y. (695) 158)

Ethanol; Hippocampus; *N*-Methyl-D-aspartate; Withdrawal; CGP39551; Magnesium (Ripley, T.L. (699) 1)

Medial vestibular nucleus; Long term depression; *N*-Methyl-D-aspartate receptor; GABA receptor; High frequency stimulation (Grassi, S. (699) 183)

Reach; Oscillation; Parietal cortex; Motor preparation; Primate (MacKay, W.A. (704) 167)

Filament
Focal cerebral ischemia; Strain differences; Intraluminal thread; Rat (Oliff, H.S. (675) 20)

Fimbria-fornix
rhNGF; rhbFGF; Dose–response; Cholinergic degeneration; Neurotrophic factor; Transection; Hippocampus (Emmett, C.J. (673) 199)

Acetylcholine release; Atropine; CP 93129; Hippocampus; Mecamylamine; Methiothepin; 2-methyl-Serotonin; Oxotremorine; Septal graft (Cassel, J.-C. (704) 153)

Fimbria-fornix lesion
Hippocampus; Auditory evoked response; Cholinergic (Bickford, P.C. (705) 235)

Fischer 344 rat
Aging; Retina; Müller cell; Photoreceptor cell (DiLoreto Jr., D.A. (698) 1)

Fish
Microglia; Regeneration; Tomato lectin; Visual pathway (Velasco, A. (705) 315)

FITC-albumin
Cerebral venule; Venular pressure; Calphostin C; Sphingosine; Vascular permeability; Brain; Rat (Mayhan, W.G. (696) 106)

FK506
Calcineurin; Hippocampus; Long-term depression; Long-term potentiation; Miniature EPSP (Hodgkiss, J.P. (705) 241)

Flank marking
Vasopressin; Testosterone; Hamster; Autoradiography; Medial preoptic area; Anterior hypothalamus (Johnson, A.E. (674) 153)

Flavin-containing monooxygenase
Brain; Metabolism; Neuroleptic; Antidepressant; Monooxygenase; Human brain (Bhamre, S. (672) 276)

Flexion reflex
N-methyl-D-aspartate receptor; MK-801; Ketamine; C-afferent; Capsaicin (Anderson, M.F. (678) 140)

Spinal cord injury; Functional electrical stimulation; Stepping generator (Nicol, D.J. (684) 230)

Flexor reflex
MK-801; *N*-Methyl-D-aspartate; Nociception; Sensitization; Plasticity (Xu, X.-J. (670) 342)

Flow cytometry
Carbohydrate; Cell sorting; Cholera toxin B subunit; Stem cell (Flaris, N.A. (678) 99)

Fluidity
Cholesterol oxidation; $Ca^{2+} + Mg^{2+}$-ATPase; $Na^+ + K^+$-ATPase; Cholesterol oxidase; Interdigitation; Synaptic plasma membrane (Wood, W.G. (683) 36)

Fluid-percussion
MAP2; Head injury; Cytoskeleton; Neuropathology; Kynurenate (Hicks, R.R. (678) 151)

Fluid percussion
Brain injury; Phosphatidylinositol bisphosphate; Diacylglycerol; Free fatty acid; Arachidonic acid (Dhillon, H.S. (698) 100)

Metabotropic glutamate receptor; Phenylglycine; α-Methyl-4-carboxyphenylglycine; Morbidity; Traumatic brain injury; Rat (Gong, Q.-Z. (700) 299)

Fluid percussion trauma
Brain injury; Interleukin-1; Interleukin-1 receptor antagonist (Toulmond, S. (671) 261)

Flumazenil
Passive avoidance; Memory deficit; Bicuculline; Picrotoxin; Leu-enkephalin (Dubrovina, N.I. (670) 347)

Diazepam; Lorazepam; Interaction; Hexobarbital anesthesia threshold; Electroencephalographic threshold technique (Korkmaz, S. (676) 371)

Flunitrazepam
Genetic epilepsy; Neuron sensitivity; $GABA_A$ receptor; Muscimol; Purkinje neuron; Baclofen; Iontophoresis; Ligand binding (Gould, E.M. (698) 62)

Fluorescein isothiocyanate albumin
Rat; Microcirculation; Pial venule; L-NMMA; L-NAME (Mayhan, W.G. (686) 99)

Fluorescence
Purkinje cell; Voltage sensitive dye; Imaging (Kogan, A. (700) 235)

Fluorescent microsphere
Colchicine; Lysosome; Microtubule; Dendrite; Neuronal transport; Hypoglossal nucleus (Beske, O. (669) 125)

Fluorescent tracer
Suprageniculate nucleus; Superior colliculus; Bilateral projection; WGA–HRP; Double-labeled neuron; Light and electron microscopy; Extrageniculate visual system; Cat (Katoh, Y.Y. (669) 298)

Retina; Ganglion cell; Ventral lateral geniculate; Posterior lateral nucleus; Retrograde double-labeling; Ipsilateral; Rat (Farid Ahmed, A.K.M. (674) 275)

Retinal ganglion cell; Uni- and bilateral projection; Double labeling; Superior colliculus; Ocular enucleation (Farid Ahmed, A.K.M. (704) 307)

α-Fluoromethylhistidine
Circadian rhythm; FMH; Hamster; Histamine; Light; Suprachiasmatic nucleus (Eaton, S.J. (695) 227)

α-Fluoromethylhistidine (α-FMH)
Conditioned place preference; Morphine; Zolantidine; L-Histidine; SCH 23390; DA turnover (Suzuki, T. (675) 195)

Fluoxetine
Cyclic voltammetry, in vivo; 5-Hydroxytryptamine; Dopamine; Uptake transporter; Nomifensine (Jackson, B.P. (674) 163)

Glucocorticoid receptor; Mineralocorticoid receptor; Serotonin; *para*-Chloroamphetamine; Adrenalectomy (Novotney, S. (684) 19)

Glucocorticoid receptor mRNA; Hippocampus; DSP4 lesion; Desipramine (Rossby, S.P. (687) 79)

Serotonin release; Culture; Fenfluramine; 3,4-Methylenedioxyamphetamine; *p*-Chloroamphetamine; Raphe; Nimodipine; Conotoxin (Wichems, C.H. (695) 10)

Fluphenazine
Fos; Stress; Noradrenergic system; Prazosin; Betaxolol; ICI118551; Ketanserin; WAY 100135 (Stone, E.A. (694) 279)

FMH
Circadian rhythm; α-Fluoromethylhistidine; Hamster; Histamine; Light; Suprachiasmatic nucleus (Eaton, S.J. (695) 227)

FMRFa
Aplysia; Lipoxygenase; Eicosanoid; Electrophysiology (Abe, M. (683) 200)

FMRFamide-related peptide
Neurotransmitter release; Invertebrate neuropeptide (Noronha, K.F. (673) 70)

Focal cerebral ischaemia
Tau; Rat; Cytoskeleton; Axon; Glia (Dewar, D. (684) 70)

Focal cerebral ischemia
Strain differences; Intraluminal thread; Rat; Filament (Oliff, H.S. (675) 20)

N-Methyl-D-aspartate; Glutamate; Microdialysis; Voltage-dependent sodium channel (Chen, J. (699) 121)

Strain difference; Rat (Oliff, H.S. (699) 329)

Focal ischemia
Brain; Dizocilpine maleate; Infarct size; Hyperthermia; Rat (Memezawa, H. (670) 48)

Cerebral ischemia; Heat shock protein; HSP27; HSP70; Immunohistochemistry; Rat (Kato, H. (679) 1)

Focused microwave sacrifice
Adenosine; *N*-Methyl-D-aspartate; Deoxycoformycin; Dilazep; Striatum; Microinjection (Delaney, S.M. (702) 72)

Fodrin
MAP 2; Calpain; Neonatal; Brain damage; Ischemia; Hypoxia (Blomgren, K. (684) 136)

Calpain; Neonatal; Brain damage; Ischemia; Hypoxia (Blomgren, K. (684) 143)

Foetal alcohol syndrome
Horseradish peroxidase; Teratogenesis; Axon terminals; Sensorimotor cortex (Santarelli, M. (698) 241)

Follistatin
Lateral hypothalamus; Lysine; Amino acid deficient diet; Inhibin; Activin; Operant behavior (Hawkins, R.L. (704) 1)

Food deprivation
Glucoprivic intake; Palatability; Nucleus accumbens; μ Opioid receptor; κ Opioid receptor (Bodnar, R.J. (700) 205)

Food intake
Morphine; Oxytocin; Vasopressin; Ventromedial hypothalamus; Lateral hypothalamus (Gulati, K. (690) 99)

Food restriction
Self-stimulation; Corticosterone; Sensitization; Reward; Opioid (Abrahamsen, G.C. (695) 186)

Footshock
Dopamine; Nucleus accumbens; Microdialysis; Stress (Kalivas, P.W. (675) 325)

Forebrain
Vasoactive intestinal polypeptide; Hypothyroidism; Hypothalamus; Circumventricular region; Immunocytochemistry (Toni, R. (682) 101)

Brain mapping; Brainstem; Central activation; Cardiovascular; Migraine (Tassorelli, C. (682) 167)

Haloperidol; Chlorpromazine; Raclopride; Risperidone; Thioridazine; Clozapine; Ritanserin; Fos; Immunohistochemistry (Wan, W. (688) 95)

Neuropeptide Y; Fos; Fourth ventricle; Paraventricular nucleus; Volume transmission; Extracellular fluid transport (Xu, B. (698) 227)

Forelimb
[^{14}C]Deoxyglucose; Striatum; Caudate-putamen; Motor cortex; Hindlimb (Brown, L.L. (686) 207)

Formalin
Hyperalgesia; Orofacial; Plasticity; Rat; Trigeminal (Cadet, R. (676) 189)

Vagotomy; Rat; Tumor necrosis factor-α; Hyperalgesia; Pain facilitation; Interleukin-1β; Interleukin-1 receptor antagonist (Watkins, L.R. (692) 244)

Formalin test
Sex difference; Pain; β-Endorphin; Behavior; Rat (Aloisi, A.M. (699) 242)

Carbon monoxide; Hemoxygenase; Metabotropic glutamate receptor; Zinc protoporphyrin-IX (Yamamoto, T. (704) 256)

Form-deprivation myopia
Chicken; Dopaminergic amacrine cell; Stroboscopic illumination; Basic fibroblast growth factor (Rohrer, B. (686) 169)

Dopamine D_2-like receptor; Chick retina; Immunocytochemistry; Hybridization, in situ (Rohrer, B. (695) 110)

Forskolin
Nicotinic acetylcholine receptor channel; Rat muscle; Dissociated muscle fibre; Cyclic AMP-dependent protein kinase (Lorenzon, P. (703) 100)

Fos
Adrenaline; Brainstem; Immunocytochemistry; Luteinising hormone; Noradrenaline (Condé, G.L. (672) 68)

c-fos; c-jun; Estradiol; Jun-B; Jun-D; Lordosis; Progesterone; Sexual behavior (Flanagan-Cato, L.M. (673) 53)

Herpes simplex virus; Vagus nerve; Medulla oblongata (Gieroba, Z.J. (675) 329)

Medulla oblongata; Bezold–Jarisch reflex (Gieroba, Z.J. (683) 43)

Picrotoxin; Convulsion; Immunohistochemistry; Cortex; Thalamus; Caudate-putamen; Hippocampus; Rat (Willoughby, J.O. (683) 73)

Haloperidol; Chlorpromazine; Raclopride; Risperidone; Thioridazine; Clozapine; Ritanserin; Forebrain; Immunohistochemistry (Wan, W. (688) 95)

Nitric oxide; Circadian rhythm; Suprachiasmatic nucleus; Photic entrainment (Weber, E.T. (692) 137)

Stress; Noradrenergic system; Prazosin; Betaxolol; ICI118551; Fluphenazine; Ketanserin; WAY 100135 (Stone, E.A. (694) 279)

Brainstem; Histochemistry; Hypothalamus; Medulla; NADPH-Diaphorase; Nitric oxide; Nitroglycerin (Tassorelli, C. (695) 37)

Neuropeptide Y; Fourth ventricle; Paraventricular nucleus; Forebrain; Volume transmission; Extracellular fluid transport (Xu, B. (698) 227)

Striatum; Corticostriatal afferent; Dopamine receptor; Glutamate receptor; Cortex (Liste, I. (700) 1)

c-Fos
Inferior colliculus; Cortex; Seizure; 2-Deoxyglucose (McCown, T.J. (701) 117)

Morphine; Nociception; Spinal cord; Time course (Honoré, P. (705) 91)

c-Fos expression
Angiotensin II; Angiotensin IV; AT_4 receptor; Autoradiography; Hippocampus; Rat; Guinea pig (Roberts, K.A. (682) 13)

Fos immunocytochemistry
Circadian rhythm; Monosodium glutamate; Suprachiasmatic nucleus; Intergeniculate leaflet; Photic stimulation; Constant light (Edelstein, K. (675) 135)

Fos immunohistochemistry
Closed head injury; *N*-Methyl-D-aspartate receptor; Lactation; Rat (Woodside, B. (690) 48)

Fos immunoreactivity
Sodium depletion; Organum vasculosum lamina terminalis; Subfornical organ; Sodium intake; Sodium sensitive-neuron (Vivas, L. (679) 34)

Ethanol; Hypothalamus; Amygdala; Edinger–Westphal nucleus; Parabrachial nucleus; Dehydration; Vasopressin (Chang, S.L. (679) 89)

Hypothalamic paraventricular nucleus; Corticotropin-releasing hormone; Pharmacogenetics; Selective breeding; Stress; Wistar rat (Mulders, W.H.A.M. (689) 61)

Circadian rhythm; Suprachiasmatic nucleus; Intergeniculate leaflet; Non-photic stimulus (Edelstein, K. (690) 254)

Fos-like immunoreactivity
Dehydration; Polydipsia; Hypothalamus; Circumventricular organ; Water balance; Inbred mouse (Ueta, Y. (677) 221)

c-Fos-like immunoreactivity
Nucleus of solitary tract; Pontine parabrachial nucleus; Learning; Conditioned taste aversion; Emetic drug; Area postrema (Swank, M.W. (673) 251)

Fos-protein
Additive and synergistic action; CCK/D_2 receptor interaction; Rat nucleus accumbens (Li, X.-M. (684) 225)

c-Fos protein
Immunohistochemistry; Sneeze; Trigeminal nerve; Respiratory reflex; Cat (Wallois, F. (687) 143)

Fourier analysis
Sleep cycle; State transition; Acetylcholine-pharmacology; Serotonin-pharmacology; Norepinephrine-pharmacology (Benington, J.H. (681) 141)

Potassium conductance; Delta power; N^6-Cyclopentyladenosine; EEG; Sleep homeostasis; Sleep function (Benington, J.H. (692) 79)

Fourth ventricle
Neuropeptide Y; Fos; Paraventricular nucleus; Forebrain; Volume transmission; Extracellular fluid transport (Xu, B. (698) 227)

Fractional efflux
Acetylcholine; Calcium; Dissociated cell; Glutamate; High-performance liquid chromatography; Striatum (Login, I.S. (697) 271)

Fragment peptide
$AVP_{(4-9)}$; $AVP_{(4-8)}$; Receptor autoradiography; Cell culture; Intracellular Ca^{2+}; Immunocytochemistry; Fura-2 (Jurzak, M. (673) 349)

F344 rat
Fast axoplasmic transport; Sciatic nerve; Aging (Jacob, J.M. (699) 154)

Free fatty acid
Brain injury; Fluid percussion; Phosphatidylinositol bisphosphate; Diacylglycerol; Arachidonic acid (Dhillon, H.S. (698) 100)

Free radical
Aging; Blood–brain barrier; Peroxidation (Mooradian, A.D. (671) 159)

Methamphetamine; Transgenic mouse; Serotonin uptake site; Superoxide dismutase (Hirata, H. (677) 345)

Cell culture; Cerebral cortex; Excitotoxicity; Glutamate; Head trauma; Lipid peroxidation (Regan, R.F. (682) 144)

Hydrogen peroxide; Hippocampus; CA1; Intracellular recording; K^+ channel (Seutin, V. (683) 275)

Aging; α-Tocopherol; Antioxidant; Ascorbate; Cognition; Phenyl-α-*tert*-butylnitrone; TBARS (Socci, D.J. (693) 88)

Brain imaging; In vivo; Electron spin resonance computer tomography (Hiramatsu, M. (697) 44)

Ischemia; Myelination; O2A lineage; Reactive oxygen species; White matter (Husain, J. (698) 86)

Manganese; Ferrous citrate; Lipid peroxidation; Neurotoxicity; Dopamine; Nigrostriatal neuron; Mn-SOD (Sziráki, I. (698) 285)

Ascorbic acid; Glutathione; Ischemia; Turtle; Rat; Temperature; Metabolism (Pérez-Pinzón, M.A. (705) 45)

Freeze-dried vertically Pt-C replicated PHF
Alzheimer's disease; Organization of tau subunits in PHF; PHF isolated from neurofibrillary tangles; Neurofibrillary pathology (Ruben, G.C. (675) 1)

Freezing technique
Culture; Neuron-specific enolase; γ-Aminobutyric acid; Thienyl-phencyclidine; Computer microscope; Principal component analysis (Petite, D. (669) 263)

Frequency regulation
Slow afterhyperpolarization; Locomotion; Serotonin receptor; Lamprey (Wikström, M. (678) 191)

Freund's adjuvant
Nervous system; Monoarthritis; Substance P; Neurokinin A; Calcitonin gene-related peptide; Neuropeptide Y (Bileviciute, I. (704) 71)

Frog
Nerve transplantation; Aberrant synapse; Cross-modality rewiring; Alternative specificity; Neural plasticity (Scalia, F. (685) 187)

Taste response; Salt; Glossopharyngeal nerve; Cation-induced response; Receptor for cation; Anion modulation; Lyotropic series (Kitada, Y. (694) 253)

Spinal cord; Serotonin; $5\text{-}HT_3$ receptor; Excitatory amino acid; *N*-Methyl-D-aspartate receptor (Holohean, A.M. (704) 184)

Guanylate cyclase; Ultracytochemistry; Porcine brain natriuretic peptide; Choroid plexus; Epithelial cell (Vagnetti, D. (705) 295)

Frontal cortex
Suicide; Depression; *N*-Methyl-D-aspartate receptor; Glycine; Glutamate; Human (Nowak, G. (675) 157)

Glucocorticoid receptor; Adrenalectomy; Western blotting; Binding; Hippocampus (O'Donnell, D. (687) 133)

$\beta\text{-Amyloid}_{(1-42)}$ peptide; Nucleus basalis magnocellularis; Cholinergic system; Cholinotoxicity (Harkany, T. (695) 71)

Frontal eye field
Superior colliculus; Primary motor cortex; Orofacial movement; Anterograde axonal tracing; Intracortical microstimulation; Monkey (Tokuno, H. (703) 217)

Frontoparietal cortex
CGS 8216; Somatostatin receptor; Ammonium acetate; Hippocampus; Rat (Boyano-Adánez, M.C. (688) 1)

Fully kindled state
Prenatal protein malnutrition; Rapid kindling; Rat; Inhibition; Hippocampal formation (Shultz, P.L. (682) 35)

β-Funaltrexamine
Calcitonin gene-related peptide; $CGRP_{8-37}$; Naltrindole; nor-Binaltorphimine; Naloxone; Opioid receptor; Hindpaw withdrawal latency (Yu, L.-C. (698) 23)

Functional activity
(Wakabayashi, S. (679) 110)

Functional electrical stimulation
Flexion reflex; Spinal cord injury; Stepping generator (Nicol, D.J. (684) 230)

Functional recovery
Parkinson's disease; Fetal transplant; Dopamine neuron; Levodopa (Steece-Collier, K. (676) 404)

Functional reorganization
Somatosensory cortex; Thrombosis; Recovery of function; T-maze; Sensorimotor deficit (Pazos, A.J. (689) 224)

Fura-2
Ethanol; Central nervous system neuron; Glutamate receptor; Neuronal development; Intracellular calcium; Granule neuron (Gruol, D.L. (673) 1)

Interleukin-6; Interleukin-1; Differentiation; Glutamate; Caffeine; Depolarization; Brain (Holliday, J. (673) 141)

$AVP_{(4-9)}$; $AVP_{(4-8)}$; Fragment peptide; Receptor autoradiography; Cell culture; Intracellular Ca^{2+}; Immunocytochemistry (Jurzak, M. (673) 349)

Alzheimer's disease; Amylin; β2-Microglobulin; Calcium; Hippocampus; Prion protein; 2,7-Dichlorofluorescin; Vitamin E (Mattson, M.P. (676) 219)

Intracellular pH; Intracellular calcium; BCECF; Glutamate; Cortical neuron (OuYang, Y.-B. (676) 307)

Opiate; Intracellular calcium; $^{45}Ca^{2+}$ uptake; Neuronal cell line (Fields, A. (687) 94)

Alzheimer's disease; Calcium; Colchicine; Excitototoxicity; Glutamate; Microtubule; Taxol (Furukawa, K. (689) 141)

β-Cyclazocine; *N*-Methyl-D-aspartate receptor; Neuroprotection; Single-channel recording; Rate constant (Sawyer, D.C. (698) 30)

N-Methyl-D-aspartate receptor; Glutamate receptor; Neurohypophysis; Rat (Giovannucci, D.R. (702) 246)

Fura-2 microfluorometry
Ciliary ganglion cell; SBFI microfluorometry; Nicotine; Muscarine; Ca^{2+} channel blocker (Sorimachi, M. (669) 26)

Ciliary ganglion cell; Nicotine; Muscarine; Ca^{2+} channel antagonist; Mn^{2+} influx (Sorimachi, M. (696) 67)

Fusimotor neuron
Muscle fatigue; Isotonic contraction (Ljubisavljević, M. (673) 126)

Muscle contraction; Muscle fatigue (Ljubisavljević, M. (691) 99)

G

$GABA_A$
Whole-cell patch; Slice; Hippocampus; Inhibition; Chloride accumulation; Fast inhibitory postsynaptic current; Disinhibition (Ling, D.S.F. (670) 142)

Hippocampal formation; Nucleus accumbens; Caudate–putamen; AMPA; $GABA_B$ (Finch, D.M. (670) 233)

γ-Aminobutyric acid; NPY; Circadian rhythm (Huhman, K.L. (675) 333)

Neurosteroid; Long-term potentiation; Ethanol; Dehydroepiandrosterone sulfate; *N*-Methyl-D-amphetamine; AMPA (Randall, R.D. (701) 238)

$GABA_A$ antagonist
Brain stimulation; Aversion; Defense; Kainate; c-*fos* Proto-oncogene; Medial hypothalamus; Limbic system (Silveira, M.C.L. (674) 265)

$GABA_A$ / benzodiazepine receptor
Pregnenolone synthesis; Neurosteroid; Rat retina (Guarneri, P. (683) 65)

$GABA_A$ depolarizing potential
Hippocampus; Slice culture; Zinc; 4-Aminopyridine; $GABA_A$ hyperpolarizing potential; Epileptiform activity (Ricciardi, T.N. (680) 80)

$GABA_A$ hyperpolarizing potential
Hippocampus; Slice culture; Zinc; 4-Aminopyridine; $GABA_A$ depolarizing potential; Epileptiform activity (Ricciardi, T.N. (680) 80)

$GABA_A$ receptor
Parkinson's disease; Basal ganglia; Dyskinesia; Dopamine receptor; Globus Pallidus; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (Calon, F. (680) 43)

Stress; Prefrontal cortex; SR 95531; Restraint (Gruen, R.J. (684) 112)

Long-term potentiation; Dentate gyrus; Opioid; Disinhibition (Xie, C.W. (688) 56)

Dorsal horn; Pain; Nociception; Spinal cord slice; Dorsal root potential; Presynaptic inhibition (Shimizu, T. (691) 92)

Genetic epilepsy; Neuron sensitivity; Muscimol; Flunitrazepam; Purkinje neuron; Baclofen; Iontophoresis; Ligand binding (Gould, E.M. (698) 62)

γ_{2L} subunit; Antipeptide serum; Ethanol; Rat; Mouse (San Juan, I. (698) 209)

$GABA_C$ receptor; Reverse-transcribed polymerase chain reaction; Pituitary (Boué-Grabot, E. (704) 125)

Ro 15-4513; Benzodiazepine; Hippocampus; Cerebellum; Medulla; Spinal cord (Mehta, A.K. (704) 289)

Field IPSP; Long-term potentiation; Feedforward inhibition; Feedback inhibition; Laminar profile; Theta rhythm; Long-term depression; LTP; LTD (Arai, A. (704) 298)

Subfornical organ; γ-Aminobutyric acid; $GABA_B$ receptor; Muscimol; Bicuculline; Baclofen (Inenaga, K. (705) 85)

$GABA_A$ receptor α_1 subunit-immunoreactivity
Rat; Basal forebrain; Calcium-binding protein; Choline acetyltransferase; Glutamic acid decarboxylase (Härtig, W. (692) 215)

$GABA_B$
Hippocampal formation; Nucleus accumbens; Caudate–putamen; AMPA; $GABA_A$ (Finch, D.M. (670) 233)

Ventral striatum; Ventral pallidum; Sensorimotor gating; PPI (Kodsi, M.H. (684) 26)

$GABA_B$ receptor
Guanine nucleotide-binding regulatory protein (G protein); $5\text{-}HT_{1A}$ receptor; Muscarinic receptor; GTPase activity; Receptor–G protein coupling (Odagaki, Y. (689) 129)

Subfornical organ; γ-Aminobutyric acid; $GABA_A$ receptor; Muscimol; Bicuculline; Baclofen (Inenaga, K. (705) 85)

$GABA_C$ receptor
$GABA_A$ receptor; Reverse-transcribed polymerase chain reaction; Pituitary (Boué-Grabot, E. (704) 125)

GABA receptor
RDL (resistance to dieldrin) subunit; *Drosophila melanogaster*; Bicyclic dinitrile; Convulsant site (Hosie, A.M. (693) 257)

Medial vestibular nucleus; Long term depression; *N*-Methyl-D-aspartate receptor; High frequency stimulation; Field potential (Grassi, S. (699) 183)

GABA receptor channel
Lindane; HCH isomer; Insecticide; Chloride current; Dorsal root ganglion (Nagata, K. (704) 85)

GABA release
Locus coeruleus; Push–pull superfusion; Glutamate release; Aspartate release; Immobilization stress; Tail pinch; Blood pressure (Singewald, N. (704) 42)

GABA-withdrawal syndrome
Baclofen; Electroencephalogram; Cerebral cortex; Spike-and-wave; Epilepsy (Brailowsky, S. (702) 126)

GAD
Immunocytochemistry; WGA-gold; Retrograde labeling; Dentate gyrus; CA1; Rat (Qiu, K. (702) 287)

Galactocerebroside
Cyclic adenosine 3′,5′-monophosphate; Proliferation; Differentiation; Cellular process (Yamada, H. (681) 97)

Oligodendrocyte; Myelin; Glycolipid; Sulfatide; Ultrastructural immunocytochemistry (Schiff, R. (686) 143)

ß-Galactosidase
Replication deficient recombinant adenovirus; Retrograde transport; Neural tracing; Rat striatum (Kuo, H. (705) 31)

Galanin
Arcuate nucleus; Estrogen receptor; Immunocytochemistry; Female rat (Horvath, T.L. (675) 321)

κ-Receptor; Enterostatin; Naloxone; Feeding; U50488; Fat intake (Barton, C. (702) 55)

Gamma
Auditory cortex; Somatosensory cortex; Evoked potential; Spontaneous EEG (MacDonald, K.D. (694) 1)

Ganglion cell
Retina; Visual system; *Spermophilus tridecemlineatus*; Collateral (Lugo, N. (673) 161)

Retina; Ventral lateral geniculate; Posterior lateral nucleus; Retrograde double-labeling; Ipsilateral; Fluorescent tracer; Rat (Farid Ahmed, A.K.M. (674) 275)

Ganglion cell layer
Neurotrophin receptor; Retina; Development; Inner plexiform layer; Inner nuclear layer; Hybridization, in situ (Ugolini, G. (704) 121)

Ganglioside
Immunohistochemistry; Monoclonal antibody; Rat brain; Cerebellum; Development (Kotani, M. (700) 40)

GAP-43
SCG; Decentralization; p38 (synaptophysin); Immunohistochemistry; Confocal laser scanning microscopy (Hou, X.-E. (679) 49)

Aggregating brain cell culture; Early development; Trimethyltin (TMT); Neurotoxicity; Microglia; Synaptophysin; Synapsin I (Monnet-Tschudi, F. (690) 8)

Neurotrophic; Retrograde axonal transport; Phosphatidylinositol 3-kinase; PI 3-kinase; ERK; MEK; MEK kinase; Signal transduction (Johanson, S.O. (690) 55)

Neuromodulin; B-50; *Xenopus laevis*; Expression; Phylogeny; Tetraploidy (Shain, D.H. (697) 241)

Dorsal root ganglia; Neuroaxonal dystrophy; Axotomy (Ohara, S. (705) 325)

Gap junction
Connexin-43; Astrocyte; Immunohistochemistry; Kainic acid; *N*-Methyl-D-aspartate; Transblot, in situ (Sawchuk, M.A. (683) 153)

Gastric acid secretion
Atropine; Indomethacin; Kainic acid; TRH antibody (Kaneko, H. (699) 97)

Gastric emptying
2-Deoxy-D-glucose; Central nervous system; Thyrotropin-releasing hormone (TRH); Vagotomy; Pancreatic polypeptide (Okumura, T. (674) 137)

Gastric ulceration
Apolipoprotein A-IV; Central nervous system; 2-Deoxy-D-glucose; Indomethacin (Okumura, T. (673) 153)

GBR-12909
6-Hydroxydopamine; D1 Receptor; D2 Receptor; Dopamine; Self-injurious behavior; Striatum (Sivam, S.P. (690) 259)

rhGDNF
Recombinant human glial derived neurotrophic factor; Epilepsy; Seizure; Kainic acid; Hippocampus (Martin, D. (683) 172)

Gender effect
Haloperidol; Dopamine receptor; Dopamine transporter; Hybridization, in situ (Rivest, R. (692) 269)

Gene
Neuronatin; Development; Brain; Neuroepithelium; Proliferation; Commitment; Differentiation; Migration (Joseph, R. (690) 92)

Gene activation
Dopamine; Differentiation; Growth factor; Tyrosine hydroxylase; Tissue culture (Du, X. (680) 229)

Gene expression
Opioid; Prodynorphin mRNA; Chronic treatment; Rat brain; Nor-binaltorphimine; Naloxone; Naltrexone (Romualdi, P. (672) 42)

Calcitonin gene-related peptide; Dorsal root ganglia neuron; Glucocorticoid; Protein kinase A; Protein kinase C (Supowit, S.C. (686) 77)

Serotonin transporter; Dorsal raphe nucleus; Hybridization, in situ; *p*-Chlorophenylalanine; Autoradiography (Yu, A. (688) 209)

GnRH neurons; *N*-Methyl-D-aspartate receptor; *N*-Methyl-DL-aspartate (Abbud, R. (690) 117)

PKC; Kindling; Epilepsy; Hybridization, in situ; mRNA; Plasticity (Kamphuis, W. (702) 94)

General anesthetic
Isoflurane; MAC; Nociceptive modulation; Pain; Raphe magnus (Leung, C.G. (699) 71)

Gene regulation
Glucocorticoid; Hypothalamo–pituitary–adrenocortical axis; Hybridization, in situ; mRNA (Herman, J.P. (677) 243)

Gene targeting
Neurotrophin-3; *lac*Z; *trk*C; Spinal cord; Sensory neuron (Tojo, H. (669) 163)

Gene therapy
Adenovirus; Herpes simplex virus; Thymidine kinase; Spinal cord tumor (Çolak, A. (691) 76)

c-*fos* gene; Metallothionein promoter; Exogenous control; NRK cell; Nf-1 cell; Transplantation; Angiogenesis; Neovascularization (Asakuno, K. (702) 23)

Genetically epilepsy-prone rat
Audiogenic seizure; Reticular formation; Seizure network; Startle; Habituation (Faingold, C.L. (704) 218)

Genetic epilepsy
Neuron sensitivity; $GABA_A$ receptor; Muscimol; Flunitrazepam; Purkinje neuron; Baclofen; Iontophoresis; Ligand binding (Gould, E.M. (698) 62)

Genetic reflex epilepsy
Audiogenic seizure; Photogenic seizure; Neural chimera; Fayoumi epileptic chicken (Fadlallah, N. (675) 55)

Genetics
Retinal degeneration; Mutant; Hippocampus; Neuron loss (Wimer, R.E. (701) 293)

Gene transfer
Retrovirus; Neural transplantation; Rat; Tyrosine hydroxylase; 6-Hydroxydopamine; Ex vivo gene therapy (Yoshimoto, Y. (691) 25)

Adenovirus; Thalamic; Cortical; Organotypic cocultures and development (Wilkemeyer, M.F. (703) 129)

Genomic DNA
μ Opioid receptor; Promoter; Transcription initiation site (Liang, Y. (679) 82)

Gentling
Handling; Neonatal period; Maternal separation; Stress; Experimental allergic encephalomyelitis; DA rat (Laban, O. (676) 133)

Genu
Corpus callosum; Sex difference; Myelinated axon; Unmyelinated axon; Myelin sheath; Electron microscopy (Mack, C.M. (697) 152)

Gephyrin
Spinal cord; Retrograde tracing; Immunogold reaction; Postsynaptic dorsal column pathway (Maxwell, D.J. (690) 127)

Gerbil
Delayed neuronal death; DNA fragmentation; Apoptosis; Cerebral ischemia; Hippocampus (Iwai, T. (671) 305)

Amyloid protein precursor; Transient global ischemia; Axonal transport; Immunoelectron microscopy; Multivesicular body (Tomimoto, H. (672) 187)

Ischemia; Pentobarbital; Acetylcholine; Brain dialysis; Choline acetyltransferase; Delayed neuronal death; Hippocampus (Ishimaru, H. (673) 112)

Cerebral infarction; Selective neuronal necrosis; Threshold; Transition; Repeated ischemia (Hanyu, S. (686) 44)

Transient forebrain ischemia; Heat-shock protein; Parvalbumin; Delayed cell death (Ferrer, I. (692) 41)

Sexually dimorphic area pars compacta; Postnatal sexual differentiation; Migration; Stereology; Cell death (Holman, S.D. (694) 167)

Global ischemia; Neuroprotection; Microdialysis; Histology (Shuaib, A. (702) 199)

Cerebral ischemia; Adenosine antagonist; CP 66,713; Chlorostyrylxanthine; CGS 15943; DPCPX; Stroke (Phillis, J.W. (705) 79)

Cerebral ischemia; Protein kinase II; CA1; CA3 (Babcock, A.M. (705) 307)

Giant axon
Axonal pathology; Acute; Traumatic spinal cord injury (Anthes, D.L. (702) 1)

Glaucoma
Retina; Neurofilament; Calcium-binding protein (Vickers, J.C. (680) 23)

Glia
Sodium channel; Mechanoreceptor; Immunocytochemistry; Spider; Sensory; Arthropod (Seyfarth, E.-A. (683) 93)

Tau; Focal cerebral ischaemia; Rat; Cytoskeleton; Axon (Dewar, D. (684) 70)

Insulin-like growth factor-I; *N*-Methyl-D-aspartate receptor; Retina; Proliferation (Ikeda, T. (686) 87)

Estrogen; Progesterone; Plasticity; Synaptogenesis; Synapse shedding (Klintsova, A. (690) 269)

Adducin; Cell membrane; Cerebellum; Cytoskeleton; Hippocampus; Monoclonal antibody; Synapse (Seidel, B. (700) 13)

Parkinson's disease; Epidermal growth factor; Basic fibroblast growth factor; Neurotrophin; Ischemia; Neuronal survival; MPP^+ (Akaneya, Y. (704) 175)

Glial
Neuron; Tissue culture; NADPH diaphorase; Nitric oxide synthase; Survival (Page, G.K. (697) 157)

Glial cell
Protein kinase C; PKC; Isoenzyme; IMHV; Imprinting; Double-labeling; Neuron-specific enolase; S100 (Van der Zee, E.A. (676) 41)

Medicinal leech; Retzius neurone; Intracellular Ca^{2+}; Extracellular K^+; Ca^{2+} channel; Menthol (Hochstrate, P. (696) 231)

mCalpain; Localization; Myelin sheath; Rat nervous system; Myelin basic protein; Neurofilament protein; Neuron (Li, Z. (697) 112)

Depolarization; K^+ concentration; Population spike; Schaffer collateral; Synaptic transmission (Leung, L.S. (697) 262)

17β-Hydroxysteroid dehydrogenase; Rat brain; Estrogen; Neurosteroid (Pelletier, G. (704) 233)

NADPH-diaphorase; Ultrastructural localization; Neuron; Endothelial cell; Brain; Goldfish (Villani, L. (705) 332)

Glial cell line-derived neurotrophic factor
Dopamine; Tyrosine hydroxylase; Substantia nigra; Striatum; Neuroprotection (Kearns, C.M. (672) 104)

Glial fibrillary acidic protein
mRNA; Spreading depression; Potassium; MK-801 (Bonthius, D.J. (674) 314)

Astrogliosis; Cytokine; Ciliary neurotrophic factor; Tumor necrosis factor-α; ED1; MHCII; Microglia (Kahn, M.A. (685) 55)

Transplantation; Striatum; Astrocyte; Migration; Thalamus; Ventral mesencephalon (Pundt, L.L. (695) 25)

Brain lesioning; Calcium channel; Reactive astrocyte; Verapamil hydrochloride (Klepper, S. (695) 245)

Glial inclusion
Ballooned neuron; Corticobasal degeneration; Oxidative stress; Pick disease; Neuropil thread (Castellani, R. (696) 268)

Glial limiting membrane
Parathyroid hormone-related protein; Astrocyte; Meninges (Struckhoff, G. (676) 1)

Glibenclamide
Antinociception; Analgesia (opioid); Analgesia (non-opioid); Potassium channel; Mouse (Raffa, R.B. (677) 277)

Gliosis
Growth inhibitory factor; Stab wound; Reactive astrocyte; Alzheimer's disease; Western blot; Northern blot (Hozumi, I. (688) 143)

AT_2 receptor; Autoradiography; OX-42; ED1; Immunohistochemistry; Kainic acid; Hippocampus; Angiotensin (Jöhren, O. (702) 153)

Global brain ischemia
DNA fragmentation; Granular cell; Purkinje cell; Apoptosis; Nick-end labeling (Hara, A. (697) 247)

Global cerebral ischemia
Hippocampus; Selective vulnerability; Norepinephrine release; Voltage-dependent calcium channel; Nitrendipine; *N*-Methyl-D-aspartate receptor-channel complex (Hurt, K.J. (673) 226)

Apolipoprotein E; Apolipoprotein J; Cardiac arrest; Rat; Alzheimer's disease (Kida, E. (674) 341)

Global ischemia
Antioxidant; LY 231617; Rat (Block, F. (694) 308)

Gerbil; Neuroprotection; Microdialysis; Histology (Shuaib, A. (702) 199)

Globus pallidus
Substantia nigra; Entopeduncular nucleus; c-*fos*; Dopamine antagonist; D_1 receptor; D_2 receptor (Wirtshafter, D. (670) 205)

Caudate-putamen; Sensorimotor integration; Auditory; Somatosensory; Electrophysiology; Rat; Multisensory response properties (Chudler, E.H. (674) 33)

Basal ganglia; Putamen; Caudate nucleus; Primate; Single neuron; Motor control; Movement; Movement direction; Precue; Ipsilateral (Jaeger, D. (694) 111)

Immediate-early gene; c-*fos*; D_1 receptor; D_2 receptor; Synergism; Subthalamic nucleus; SKF 38393; Quinpirole (Ruskin, D.N. (703) 156)

MPTP; Parkinsonism; Entopeduncular nucleus; Dopamine (Rothblat, D.S. (705) 1)

Globus Pallidus
Parkinson's disease; Basal ganglia; Dyskinesia; $GABA_A$ receptor; Dopamine receptor; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (Calon, F. (680) 43)

Glomus
Ion channel; Patch clamp; Tetrodotoxin; Chemoreceptor; Acclimatization; Oxygen (Hempleman, S.C. (699) 42)

Glomus cell
Carotid body; Intracellular potassium; Hypoxia (Zhang, X.-Q. (676) 413)

Glossopharyngeal nerve
Calcium-binding protein; Carotid body; CGRP; Nodose ganglion; Petrosal ganglion; Tyrosine hydroxylase; Vagus nerve (Ichikawa, H. (675) 337)

Taste response; Salt; Cation-induced response; Receptor for cation; Anion modulation; Lyotropic series; Frog (Kitada, Y. (694) 253)

Glucocorticoid
Corticosterone; Luteinizing hormone; RU 28362 (Briski, K.P. (670) 66)

Sheep; Fetus; Calcium; Ontogeny; Brain (McDonald, T.J. (675) 303)

Hypothalamo–pituitary–adrenocortical axis; Hybridization, in situ; Gene regulation; mRNA (Herman, J.P. (677) 243)

Corticotropin-releasing hormone; Brain cell culture; CRH receptor; Extrahypothalamic; Cyclic AMP; Anterior pituitary; Modulation; Corticosterone; Protein kinase C; Dexamethasone; Vasopressin (Kapcala, L.P. (678) 207)

Calcitonin gene-related peptide; Dorsal root ganglia neuron; Gene expression; Protein kinase A; Protein kinase C (Supowit, S.C. (686) 77)

Glucocorticoid receptor
Mineralocorticoid receptor; Serotonin; *para*-Chloroamphetamine; Fluoxetine; Adrenalectomy (Novotney, S. (684) 19)

[^{3}H]Triamcinolone acetonide; Sodium molybdate; Leupeptin; Ion exchange chromatography; Heterogeneity (Yoneda, Y. (685) 105)

Adrenalectomy; Western blotting; Binding; Hippocampus; Frontal cortex (O'Donnell, D. (687) 133)

Hippocampus; Aging; Thyroid hormone receptor; Androgen receptor; Estrogen receptor; Hybridization, in situ histochemistry (Tohgi, H. (700) 245)

Glucocorticoid receptor mRNA
Hippocampus; DSP4 lesion; Desipramine; Fluoxetine (Rossby, S.P. (687) 79)

Glucocorticoids
Mesolimbic dopamine system; Dopamine receptor; Amphetamine-induced sensitization; Prenatal stress (Henry, C. (685) 179)

Gluconeogenesis
Cell culture; Astrocyte; Astroglia; Neuron; Immunocytochemistry (Schmoll, D. (677) 341)

Glucoprivation
Area postrema; Estrous cycle; Metabolic fuel; Nucleus of the solitary tract; 2-Deoxy-D-glucose (Schneider, J.E. (698) 107)

Glucoprivic intake
Food deprivation; Palatability; Nucleus accumbens; μ Opioid receptor; κ Opioid receptor (Bodnar, R.J. (700) 205)

Glucose
Feeding; Peptide; Insulin; NPY; Immediate-early gene (Lambert, P.D. (670) 59)

Brain ageing; Glutamate; Aspartate; Synaptosome (Martínez, M. (673) 149)

Glycogen; Olfactory bulb; Brain development; Noradrenaline; Norepinephrine; Carnosine (Coopersmith, R. (674) 230)

S100; Calcium; Hippocampus; Neurotrophic; Mitochondria (Barger, S.W. (677) 167)

Lactate; Hippocampus; Anoxia; Hypoxia; Ion transport; Synaptic transmission; Brain slice (Roberts, Jr., E.L. (678) 83)

Brain; Arachidonate; Docosahexaenoate; Palmitate; Deoxyglucose; Quantitative autoradiography; Visual system; Orbital enucleation; Rat; Fatty acid; Lipid; Phospholipid; Vision; Neuroplasticity (Wakabayashi, S. (679) 110)

Scopolamine; Cholinergic septo-hippocampal system; High-affinity choline uptake; Memory; Alzheimer's disease (Micheau, J. (685) 99)

Morphine sulfate; Morphine-3-glucuronide; Morphine-6-glucuronide; Cathecholamine; Hormone; Rat; i.c.v. (Hashiguchi, Y. (694) 13)

Atropine; Sleep; Memory; Spontaneous alternation; Paradoxical sleep (Stone, W.S. (694) 133)

2-Deoxy-D-[^{14}C]glucose; Pain; Analgesia; Rat; Brain (Gescuk, B.D. (701) 279)

Glucose deprivation
Hippocampal slice; Hypoxia; Intracellular recording; ATP; Intracellular calcium; Lactate (Takata, T. (683) 109)

Organotypic hippocampal culture; Oxygen deprivation; Glutamate receptor antagonists; Neuroprotection; Propidium iodide staining (Strasser, U. (687) 167)

Glucose metabolism
Concussion; Ionic flux; Lactate; Excitatory amino acid; Microdialysis; Glycolysis (Kawamata, T. (674) 196)

Glucose transport; Brain metabolism; Local cerebral glucose utilization; Immunoautoradiography; Autoradiography; Antibody (Zeller, K. (698) 175)

Glucose transport
Stroke; Neuronal protein; Brain metabolism (McCall, A.L. (670) 29)

Brain metabolism; Local cerebral glucose utilization; Immunoautoradiography; Autoradiography; Glucose metabolism; Antibody (Zeller, K. (698) 175)

Glucose transporter
Chronic hypoxia; Brain regulation; Development; Glyceraldehyde 3-phosphate dehydrogenase; mRNA (Xia, Y. (675) 224)

Glucose utilisation
Hypermetabolism; MK-801; NBQX; Limbic system (Patel, T.R. (686) 254)

mGluR
Metabotropic glutamate receptor; MCPG; Epilepsy; 4-Aminopyridine; Amygdala; Ictal; Interictal (Arvanov, V.L. (669) 140)

Potassium channel; Nodose neuron (Hay, M. (698) 169)

GluR1
AMPA receptor; Alzheimer's disease; GluR2/3 (Yasuda, R.P. (678) 161)

GluR2/3
AMPA receptor; Alzheimer's disease; GluR1 (Yasuda, R.P. (678) 161)

Glutamate
Tetrodotoxin; Excitotoxicity; Synaptic transmission; γ-Aminobutyric acid; *N*-Methyl-D-aspartate (Yoon, K.-W. (669) 320)

Ion channel; Osmotic effect; γ-Aminobutyric acid; Whole-cell patch-clamp; Dissociated neuron; Cell volume (Vreugdenhil, M. (670) 89)

MK-801 binding; Brain (McGowan, J.E. (670) 283)

Hair cell; Vestibular; Synapse; Inner ear; Turtle (Cochran, S.L. (670) 321)

Long-term potentiation; Dopamine release; Ischemia; Striatum (Inoue, H. (671) 95)

Amphetamine; Cocaine; Dopamine; γ-Aminobutyric acid; Stereotypy; Striatum; Mouse (Karler, R. (671) 100)

Synaptoneurosome; Phospholipase; Receptor; Plasticity (Bernard, J. (671) 195)

Interleukin-6; Interleukin-1; Differentiation; Fura-2; Caffeine; Depolarization; Brain (Holliday, J. (673) 141)

Brain ageing; Aspartate; Synaptosome; Glucose (Martínez, M. (673) 149)

Hippocampus; Kainic acid; Microdialysis; Nitric oxide; Rat; Seizure (Rigaud-Monnet, A.-S. (673) 297)

N-Methyl-D-aspartate; Delayed neuronal injury; CA1; Hippocampus; Slice (Wallis, R.A. (674) 75)

Diethyldithiocarbamate; *N*-Methyl-D-aspartate receptor; Dizocilpine; Mesencephalic cell; Dopamine uptake (Vaglini, F. (674) 127)

Glycine; *N*-Methyl-D-aspartate receptor; Glycine site; Ischemia; Organotypic hippocampal cultures; Acea 1021; 7-Chlorokynurenic acid; MK-801 (Newell, D.W. (675) 38)

Suicide; Depression; *N*-Methyl-D-aspartate receptor; Glycine; Frontal cortex; Human (Nowak, G. (675) 157)

Neurotoxicity; Depolarization; *N*-Methyl-D-aspartate; Hippocampus; Ca^{2+}; Cl^- (Takahashi, M. (675) 249)

Glutamine; Compartmentation; Vestibular endorgan; Rat; Immunocytochemistry (Usami, S.-i. (676) 285)

Intracellular pH; Intracellular calcium; BCECF; Fura-2; Cortical neuron (OuYang, Y.-B. (676) 307)

Amino acids; Baroreceptor reflex; Nucleus tractus solitarii; Denervation; Nodose ganglion; Blood pressure (Colombari, E. (677) 110)

HIV-1; gp120; Calcium; Synaptosome; Dantrolene; Calcium channel blocker (Nath, A. (678) 200)

Dorsal motor nucleus; Negative dromotropic: Retrograde transport; Ultrastructure; Vagus nerve (Massari, V.J. (679) 227)

Acetylcholine; D_1-Dopamine agonist; Reserpine; Supersensitivity; Striatum; In vitro (Login, I.S. (681) 209)

Sensitization; Apomorphine; 6-Hydroxydopamine; *N*-Methyl-D-aspartate (Gancher, S. (682) 63)

Cocaine; Cocaine self-administration; Neurotransmitter turnover rate; Dopamine; Noradrenaline; Serotonin; γ-Aminobutyric acid; Aspartate (Dworkin, S.I. (682) 116)

Cell culture; Cerebral cortex; Excitotoxicity; Free radical; Head trauma; Lipid peroxidation (Regan, R.F. (682) 144)

Aspartate; Cocaine; Microdialysis; Nucleus accumbens; Stereotypy (Smith, J.A. (683) 264)

Excitotoxicity; Neurotoxicity; Malonate; Microdialysis; γ-Aminobutyric acid (Messam, C.A. (684) 221)

Glycine; CA1 (Wallis, R.A. (685) 225)

Antipsychotic drug; Taurine; Neuroleptic; Tardive dyskinesia; Striatum (Lidsky, T.I. (686) 104)

Astrocyte; Microglia; Cerebellum; Hippocampus; Cyclic GMP; Nitric oxide; Noradrenaline (Agulló, L. (686) 160)

Purkinje neuron; Cerebellum; Ethanol; Alcohol; ACPD; Quisqualate; Culture (Netzeband, J.G. (688) 105)

Methylmercury; Rat; Astrocyte; Aspartate; Glutathione (Aschner, M. (689) 1)

Morphine; Opiate withdrawal; Locus coeruleus; Metabotropic receptor; Desensitization; Protein kinase C; Protein phosphatase (Kogan, J.H. (689) 111)

Alzheimer's disease; Calcium; Colchicine; Excitototoxicity; Fura-2; Microtubule; Taxol (Furukawa, K. (689) 141)

AMPA; Kainate; Cell culture; Excitotoxicity; Spinal cord; Neurotoxicity; Ca^{2+}; Calcium (Yin, H.-z. (689) 265)

Excitotoxicity; *N*-Methyl-D-aspartate; Indo-1; Cell culture; Confocal microscopy (Limbrick Jr., D.D. (690) 145)

Trigeminal; Diving reflex; Cardiovascular; Respiration; Kynurenate; Lidocaine; Nasal; Medullary dorsal horn; Diving response; Muskrat (Panneton, W.M. (691) 37)

β-Amyloid; Neurotoxicity; Excitotoxicity; Neurons; Astrocyte; Hippocampal cell culture; Cortical cell culture; Alzheimer's disease (Gray, C.W. (691) 169)

N-Methyl-D-aspartic acid; Dopamine; Opiate; Excitatory amino acid (Livezey, R.T. (692) 93)

β-Endorphin; Cell culture; Hypothalamus; Cyclic AMP; *N*-Methyl-D-aspartate (Yang, Z. (692) 129)

Dopamine D1 receptor; Dopamine D2 receptor; Dizocilpine; Rotational behavior (Boldry, R.C. (692) 259)

mRNA stability; Posttranscriptional control; *N*-Methyl-D-aspartate; Hippocampal neuron (Jakoi, E.R. (693) 124)

Retinal ganglion cell; Nitric oxide; Development; Chondroitin sulfate proteoglycan (Nichol, K.A. (697) 1)

Acetylcholine; Calcium; Dissociated cell; Fractional efflux; High-performance liquid chromatography; Striatum (Login, I.S. (697) 271)

Conditioned emotional response; Microdialysis; γ-Aminobutyric acid; Nucleus accumbens (Saulskaya, N. (698) 114)

Cerebral metabolism; Cerebral circulation; Glutathione; Microdialysis; High performance liquid chromatography (Yang, C.-S. (698) 237)

Spreading depression; Halothane; α-Chloralose; Potassium; Microdialysis (Saito, R. (699) 109)

Focal cerebral ischemia; *N*-Methyl-D-aspartate; Microdialysis; Voltage-dependent sodium channel (Chen, J. (699) 121)

N-Methyl-D-aspartate; γ-Aminobutyric acid; Cerebral cortex; Development; Rat; Evoked potential; Voltage clamp (Metherate, R. (699) 221)

Rat; Spinal cord stimulation; Periaqueductal gray matter; Microdialysis; γ-Aminobutyric acid; 5-Hydroxytryptamine; Substance P (Stiller, C.-O. (699) 231)

Methamphetamine; Cortex; Striatum; Dopamine; Microdialysis (Stephans, S.E. (700) 99)

Seizure; Glycine; 5,7-Dichlorokynurenic acid; (+)HA-966; ACPC; D-CPP; AP7; Dizocilpine; Strychnine (Peterson, S.L. (702) 101)

Nucleus of the solitary tract; Brain slice; Patch clamp; Taste; Synaptic potential; γ-Aminobutyric acid; Neuron reconstruction (Wang, L. (702) 188)

Intracellular calcium; Neuronal culture; Neuroprotection; Sigma ligand; Confocal microscopy (Klette, K.L. (704) 31)

L-Glutamate
γ-Aminobutyric acid; Spinal cord; Retrograde tracing; Immunogold reaction; Spinomedullary neuron (Maxwell, D.J. (676) 103)

Bicuculline; Ethyl-β-Carboline-3-Carboxylate; γ-Aminobutyric acid; Muscimol; Picrotoxin; Tyrosine hydroxlase and phenethyl-*N*-methyl

transferase immunoreactive cell; Vasodepressor neuron (Gatti, P.J. (693) 80)

Glutamate antagonist
Accessory olfactory bulb; Extracellular single unit recording; Synaptic response; Mitral cell (Dudley, C.A. (675) 208)

Dopamine; 6-Hydroxydopamine lesion; Basal ganglia; Motor function; On-off phenomenon; *N*-Methyl-D-aspartate; MK-801 (Papa, S.M. (701) 13)

Glutamate binding
Nitric oxide; N^{ω}-Nitro-L-arginine methyl ester; Pentylenetetrazol; Kindling; Epilepsy; Rat (Becker, A. (688) 230)

Glutamate neurotoxicity
ATP content; *N*-Methyl-D-aspartate receptor; Kainate receptor; Energetic stress (Marcaida, G. (695) 146)

Glutamate receptor
Association neocortex; AMPA/kainate receptor; Human brain; Pyramidal neuron (Vickers, J.C. (671) 175)

Ethanol; Central nervous system neuron; Fura-2; Neuronal development; Intracellular calcium; Granule neuron (Gruol, D.L. (673) 1)

Amyotrophic lateral sclerosis; Motor neurone disease; Spinal cord; NMDA receptor; NR1 mRNA; c-*jun*; Glycine transporter (Virgo, L. (676) 196)

Excitatory amino acid; Immunohistochemistry; Dentate gyrus; Ammon's horn (Blümcke, I. (682) 239)

Striatum; Corticostriatal afferent; Fos; Dopamine receptor; Cortex (Liste, I. (700) 1)

Acromelic acid; Kainic acid; AMPA; Excitatory amino acid; Neurotoxicity; Spastic paraplegia; Spinal cord (Kwak, S. (702) 61)

N-Methyl-D-aspartate receptor; Neurohypophysis; Fura-2; Rat (Giovannucci, D.R. (702) 246)

NR-1; c-*jun*; mRNA; Nerve crush; Axotomy; Development (Hay, C. (704) 145)

Ischemic brain injury; Traumatic brain injury; Neuronal death (Regan, R.F. (705) 188)

Glutamate receptor agonist
Protein kinase C isoenzyme; Translocation; Synaptic plasticity; Long-term potentiation (Staak, S. (682) 55)

Glutamate receptor antagonists
Organotypic hippocampal culture; Oxygen deprivation; Glucose deprivation; Neuroprotection; Propidium iodide staining (Strasser, U. (687) 167)

Glutamate receptor subtype
Nucleus basalis; *N*-Methyl-D-aspartate receptor; AMPA receptor; Kainate receptor; Autoradiography; γ-Aminobutyric acid receptor; Benzodiazepine receptor; Image analysis (Roßner, S. (696) 165)

Glutamate release
Ethanol; Aspartate release; Hippocampus; [^{3}H]Noradrenaline release (Sepúlveda, C. (674) 104)

Presynaptic glutamate receptor; Kindling; Epileptogenesis; Seizures; (1S,3S)-ACPD; D-CPPene; D-CPP (Attwell, P.J.E. (698) 155)

Locus coeruleus; Push–pull superfusion; Aspartate release; GABA release; Immobilization stress; Tail pinch; Blood pressure (Singewald, N. (704) 42)

Glutamate release inhibitor
Traumatic brain injury; Sodium channel blocker; Excitotoxicity; Neuronal damage; Motor deficit (Sun, F.-Y. (673) 133)

Glutamatergic transmission
Urethane; Decerebrate; Urinary bladder; External urethral sphincter; Cystometrogram (Yoshiyama, M. (691) 185)

Glutamate toxicity
Lactate dehydrogenase; Neuronal culture; σ-Mediated neuroprotection; Intracellular calcium; Neuronal morphology (DeCoster, M.A. (671) 45)

Glutamate transmission
Kappa opioid; Output regions of the basal ganglia; Parkinson's disease (Maneuf, Y.P. (683) 102)

Glutamic acid decarboxylase
Serotonin; γ-Aminobutyric acid; Nucleus raphe magnus; Dorsal raphe nucleus; Colocalization; Immunohistochemistry (Stamp, J.A. (677) 39)

Rat; Basal forebrain; $GABA_A$ receptor α_1 subunit-immunoreactivity; Calcium-binding protein; Choline acetyltransferase (Härtig, W. (692) 215)

Glutamine
Glutamate; Compartmentation; Vestibular endorgan; Rat; Immunocytochemistry (Usami, S.-i. (676) 285)

Glutathione
Amino acid; Aging; Brain area; Liver; Malnutrition (Benuck, M. (678) 259)

Antioxidant enzyme; Mitochondria; Astrocyte; Granule cell; Cell culture (Huang, J. (680) 16)

Methylmercury; Rat; Astrocyte; Aspartate; Glutamate (Aschner, M. (689) 1)

Cerebral metabolism; Cerebral circulation; Glutamate; Microdialysis; High performance liquid chromatography (Yang, C.-S. (698) 237)

Ascorbic acid; Free radical; Ischemia; Turtle; Rat; Temperature; Metabolism (Pérez-Pinzón, M.A. (705) 45)

Glyceraldehyde 3-phosphate dehydrogenase
Chronic hypoxia; Brain regulation; Development; Glucose transporter; mRNA (Xia, Y. (675) 224)

Glycidamide
Neurofilament; CaM kinase II; Phosphorylation; Acrylamide; Cytoskeletal protein (Reagan, K.E. (671) 12)

Glycine
Glutamate; *N*-Methyl-D-aspartate receptor; Glycine site; Ischemia; Organotypic hippocampal cultures; Acea 1021; 7-Chlorokynurenic acid; MK-801 (Newell, D.W. (675) 38)

Suicide; Depression; *N*-Methyl-D-aspartate receptor; Glutamate; Frontal cortex; Human (Nowak, G. (675) 157)

Glutamate; CA1 (Wallis, R.A. (685) 225)

Reticulospinal neurone; Trigeminal input; Excitatory amino acid; Locomotion; Lamprey (Viana Di Prisco, G. (695) 76)

γ-Aminobutyric acid; Sympathetic activity; Sympathetic rhythm (Clement, M.E. (696) 258)

Seizure; Glutamate; 5,7-Dichlorokynurenic acid; (+)HA-966; ACPC; D-CPP; AP7; Dizocilpine; Strychnine (Peterson, S.L. (702) 101)

γ-Aminobutyric acid; Hippocampus; Post-natal; Tissue-culture; Whole-cell current; Single-channel current (Fatima-Shad, K. (704) 246)

Glycine B receptor
Behavioral sensitization; Medial prefrontal cortex; Dopamine; Nucleus accumbens; Excitatory amino acid; Locomotion (Morrow, B.A. (673) 165)

Glycine receptor
Acoustic startle response; β-Alanine; Habituation; Hyperekplexia; Prepulse inhibition; Rat; Strychnine (Koch, M. (671) 63)

Xenopus oocyte; α1 Subunit; α2 Subunit; Protein kinase C; Whole-cell voltage clamp (Nishizaki, T. (687) 214)

Glycine site
Glutamate; Glycine; *N*-Methyl-D-aspartate receptor; Ischemia; Organotypic hippocampal cultures; Acea 1021; 7-Chlorokynurenic acid; MK-801 (Newell, D.W. (675) 38)

Glycine transporter
Amyotrophic lateral sclerosis; Motor neurone disease; Spinal cord; Glutamate receptor; NMDA receptor; NR1 mRNA; c-*jun* (Virgo, L. (676) 196)

Glycogen
Glucose; Olfactory bulb; Brain development; Noradrenaline; Norepinephrine; Carnosine (Coopersmith, R. (674) 230)

Glycogen phosphorylase; Serotonin; Astrocyte; 3,4-Methylenedioxymethamphetamine; Metabolism (Poblete, J.C. (680) 9)

Glycogen phosphorylase
Serotonin; Astrocyte; 3,4-Methylenedioxymethamphetamine; Glycogen; Metabolism (Poblete, J.C. (680) 9)

Glycogen phosphorylase activity
Immature rat; Cerebral cortex; Cyclic AMP; Homocysteine-induced seizure (Folbergrová, J. (694) 128)

Glycolipid
Oligodendrocyte; Myelin; Galactocerebroside; Sulfatide; Ultrastructural immunocytochemistry (Schiff, R. (686) 143)

Glycolysis
Concussion; Ionic flux; Lactate; Excitatory amino acid; Glucose metabolism; Microdialysis (Kawamata, T. (674) 196)

Glycosaminoglycan
Alzheimer's disease; β-Amyloid; Heparan sulfate; Chondroitin sulfate; Neurotoxicity; Neurodegeneration; Plaque (Woods, A.G. (697) 53)

GM1 ganglioside
1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Dopamine; Mouse; Fibroblast growth factor; Epidermal growth factor (Schneider, J.S. (674) 260)

Gnawing
Mu-opioid; Kappa-opioid; Delta-opioid; DAMGO; U-50,488H; DPDPE; Amphetamine; VTA; Mesoaccumbens dopaminergic system; Feeding; Drinking; Hyperdipsia; Activity; VTA (Badiani, A. (670) 264)

GnRH
Immunocytochemistry; Light; Reproduction; Phenotypic variation; Deer mouse (Korytko, A.I. (685) 135)

Calcium channel; GT1-7 neuron; Voltage-dependent Ca^{2+} channel; Nimodipine; BayK 8644; Conotoxin; Hypothalamus (Javors, M.A. (694) 49)

GnRH neurons
N-Methyl-D-aspartate receptor; Gene expression; *N*-Methyl-D,L-aspartate (Abbud, R. (690) 117)

Goldfish
Protein synthesis; Hyperactivity; Axon; M-neuron; Plasticity (Eugenín, J. (677) 319)

NADPH-diaphorase; Enzyme histochemistry; Nitric oxide; Brain (Villani, L. (679) 261)

NADPH-diaphorase; Ultrastructural localization; Neuron; Endothelial cell; Glial cell; Brain (Villani, L. (705) 332)

Goldfish, brain
Tyrosine hydroxylase; Dopaminergic; Neuron; MPTP; Parkinson's disease; Animal model; Microscopy; Immunohistochemistry; Ultrastructure (Goping, G. (687) 35)

Gold-lectin tracer
Cerebellar nucleus; Inferior olive; Red nucleus; Cholera toxin β-subunit; Axon collateral (Teune, T.M. (673) 313)

Golgi apparatus
Alzheimer; Hypothalamus; Nucleus tuberalis; Alz-50; Lipofuscin (Salehi, A. (678) 29)

Golgi–Cox
Association cortex; Development; Morphometry; Basal dendrite; Dendritic arborization; Cerebral cortex; Infant (Koenderink, M.J.Th. (678) 233)

Gonadectomy
Monodelphis; Immunohistochemistry; Androgen; Steroid receptor (Iqbal, J. (703) 1)

Gonadotropin-releasing hormone
Estrogen receptor; Preoptic area; Hypothalamus; Rhesus macaque (Sullivan, K.A. (685) 198)

gp120
HIV-1; Calcium; Synaptosome; Glutamate; Dantrolene; Calcium channel blocker (Nath, A. (678) 200)

HIV-1; Neurotoxicity; Midbrain culture; *N*-Methyl-D-aspartate; Dopamine uptake (Bennett, B.A. (705) 168)

Gpp(NH)p
Growth hormone-releasing factor; Binding site; Pituitary; Reducing agent; Aging (Lefrançois, L. (673) 39)

Schizophrenia; D_4-dopamine receptor; Guanine nucleotide; Human brain; [^{3}H]Raclopride; [^{3}H]YM-09151–2; Major depression (Sumiyoshi, T. (681) 109)

G protein
Enediyne; Neuroblastoma; Neurite outgrowth (Schor, N.F. (673) 175)

Accessory olfactory bulb; Opossum; *Monodelphis domestica*; Differential localization; Vomeronasal organ (Halpern, M. (677) 157)

Neurotensin; Substantia nigra; Dopaminergic neuron; Whole-cell recording; Cationic current; Inwardly rectifying potassium current; Inositol 1,4,5-trisphosphate (Wu, T. (683) 242)

Muscarinic receptor; Cation channel; Phosphorylation; Dephosphorylation; Deactivation; AlF complex; Chromaffin cell (Inoue, M. (687) 199)

Progesterone; Progesterone-3-BSA receptor; Estrogen; Preoptic area; Medial basal hypothalamus (Caldwell, J.D. (693) 225)

Dorsal root ganglion; Retrograde axonal transport; Nuclear translocation; Peptide antibody (Hendry, I.A. (700) 157)

Oxytocin; Receptor; Vasopressin (Flanagan-Cato, L.M. (701) 75)

Tubulin; Adenylyl cyclase; Dopamine receptor; Signal transduction (Hatta, S. (704) 23)

G_i protein
Tolerance; Anandamide; Δ^9-THC; Cannabinoid; Cannabinoid receptor; G_s protein (Fride, E. (697) 83)

G_s protein
Tolerance; Anandamide; Δ^9-THC; Cannabinoid; Cannabinoid receptor; G_i protein (Fride, E. (697) 83)

κ-Opioid receptor; U50488; P-type Ca^{2+} channel; Dynorphin A; Norbinartorphimine; Purkinje cell; Rat (Kanemasa, T. (702) 207)

GR64349
Substantia gelatinosa; Spinal slice; Neurokinin; GR73632; GR82334 (Bentley, G.N. (673) 101)

GR73632
Substantia gelatinosa; Spinal slice; Neurokinin; GR64349; GR82334 (Bentley, G.N. (673) 101)

GR82334
Substantia gelatinosa; Spinal slice; Neurokinin; GR73632; GR64349 (Bentley, G.N. (673) 101)

GR-113808
5-HT_4 receptor; Serotonin; Dopamine; Microdialysis; Striatum; Substantia nigra; Nucleus accumbens (Pozzi, L. (692) 265)

Graded impulse
Action potential; Anterior hypothalamus; Preoptic area; Slice preparation; Patch-clamp (Johansson, S. (700) 240)

Grafted human neuron
Amyloid deposit (Mantione, J.R. (671) 333)

Granular cell
DNA fragmentation; Global brain ischemia; Purkinje cell; Apoptosis; Nick-end labeling (Hara, A. (697) 247)

Granule cell
Glutathione; Antioxidant enzyme; Mitochondria; Astrocyte; Cell culture (Huang, J. (680) 16)

Granule cells
Small cell cap; Auditory brain stem; Biotinylated dextran amine; Retrograde transport; Olivocochlear fibers (Zhao, H.B. (700) 295)

Granule neuron
Ethanol; Central nervous system neuron; Fura-2; Glutamate receptor; Neuronal development; Intracellular calcium (Gruol, D.L. (673) 1)

Grooming
Dopamine; D_1 receptor; Substantia nigra; Tachykinin (Stoessl, A.J. (700) 115)

Growth
Opioid receptor; Eye; Enkephalin; Cell renewal; Zeta (ζ) receptor; Evolution; Neuropeptide; Immunocytochemistry (Zagon, I.S. (671) 105)

Growth factor
Peripheral benzodiazepine receptor; Diazepam; Basic fibroblast growth factor; Astrocyte; Proliferation; DNA synthesis (Neary, J.T. (675) 27)

Retinal pigment epithelium; Development; Transdifferentiation; bFGF; Tissue culture; Neural retina (Zhao, S. (677) 300)

Dopamine; Differentiation; Tyrosine hydroxylase; Tissue culture; Gene activation (Du, X. (680) 229)

Neuropathy; Neuropeptide; Neurotrophin (Ohara, S. (699) 143)

Growth hormone
Growth hormone-releasing factor; Somatostatin; Hyperglycemia; Hypoglycemia; Hypothalamic anterolateral deafferentation (Okada, K. (699) 33)

Growth hormone-releasing factor
Binding site; Pituitary; Gpp(NH)p; Reducing agent; Aging (Lefrançois, L. (673) 39)

Growth hormone; Somatostatin; Hyperglycemia; Hypoglycemia; Hypothalamic anterolateral deafferentation (Okada, K. (699) 33)

Growth inhibitory factor
Stab wound; Gliosis; Reactive astrocyte; Alzheimer's disease; Western blot; Northern blot (Hozumi, I. (688) 143)

Growth restoration
Neural graft; Fast-blue labeling; Snail (Gomot, A. (682) 127)

GR-receptor
Corticosterone; Kainic acid; Hippocampus; Epileptic activity; RU486 (Talmi, M. (704) 97)

GSH
Astrocyte; Ascorbate; Dehydroascorbate; Brain (O'Connor, E. (680) 157)

γ_{2L} subunit
$GABA_A$ receptor; Antipeptide serum; Ethanol; Rat; Mouse (San Juan, I. (698) 209)

GT1-7 neuron
Calcium channel; Voltage-dependent Ca^{2+} channel; Nimodipine; BayK 8644; Conotoxin; Hypothalamus; GnRH (Javors, M.A. (694) 49)

GTP
NGF synthesis; NGF mRNA; Astrocyte; Guanosine; Neurotrophin; ATP; Adenosine; Cyclic AMP (Middlemiss, P.J. (677) 152)

GTPase activity
Guanine nucleotide-binding regulatory protein (G protein); $5\text{-}HT_{1A}$ receptor; $GABA_B$ receptor; Muscarinic receptor; Receptor–G protein coupling (Odagaki, Y. (689) 129)

Guanine nucleotide
Schizophrenia; D_4-dopamine receptor; Gpp(NH)p; Human brain; [^{3}H]Raclopride; [^{3}H]YM-09151–2; Major depression (Sumiyoshi, T. (681) 109)

Hippocampus; Circumventricular organ; Brain angiotensin system; Receptor pharmacology; Quantitative autoradiography (De Oliveira, A.M. (705) 177)

Guanine nucleotide-binding regulatory protein (G protein)
$5\text{-}HT_{1A}$ receptor; $GABA_B$ receptor; Muscarinic receptor; GTPase activity; Receptor–G protein coupling (Odagaki, Y. (689) 129)

Guanosine
NGF synthesis; NGF mRNA; Astrocyte; GTP; Neurotrophin; ATP; Adenosine; Cyclic AMP (Middlemiss, P.J. (677) 152)

Guanylate cyclase
Cyclic GMP; Cerebral blood flow; Cerebral oxygen consumption; Nitrate; Rat (Lu, X. (669) 35)

Ultracytochemistry; Natriuretic peptides; Rat C6 glioma; Dibutyryl cyclic AMP; Retinoic acid (Sorci, G. (683) 51)

Ultracytochemistry; Porcine brain natriuretic peptide; Frog; Choroid plexus; Epithelial cell (Vagnetti, D. (705) 295)

Guinea pig
AMPA receptor; Immunocytochemistry; Ultrastructure; Confocal microscopy; Vestibular system; Rat (Demêmes, D. (671) 83)

Kindling; Epilepsy; Amygdala; Piriform cortex; Perirhinal cortex; Reserpine; Picrotoxin (Teskey, G.C. (672) 137)

Taurine; Organ of Corti; Rat; Immunocytochemistry (Usami, S.-i. (676) 277)

Angiotensin II; Angiotensin IV; AT_4 receptor; Autoradiography; c-Fos expression; Hippocampus; Rat (Roberts, K.A. (682) 13)

U50,488H; Abnormal posture; σ binding site; Haloperidol; Reduced haloperidol (Brent, P.J. (684) 115)

S100 protein; Vestibular system; Labyrinthectomy; Vestibular compensation; Plasticity (Rickmann, M. (688) 8)

Ambiguus neuron; Rectification; Afterhyperpolarization; Ca^{2+}-mediated K^+ current; Ih; Norepinephrine; Signal-to-noise ratio (Nishimura, Y. (702) 213)

Bandwidth; Mapping; Receptive field; Threshold; Tuning (South, D.A. (704) 275)

Guinea-pig cochlea
Caffeine; Dissociated outer hair cell; K^+ current; Whole-cell recording; Intracellular Ca^{2+} store (Yamamoto, T. (677) 89)

Gurmarin
Anti-sweet taste; Rat; *Gymnema sylvestre* (Miyasaka, A. (676) 63)

GYKI-52466
AMPA/kainate receptor; CNQX; Micturition; Pontine micturition center (Matsumoto, G. (693) 246)

Gymnema sylvestre
Gurmarin; Anti-sweet taste; Rat (Miyasaka, A. (676) 63)

Gymnotiformes
Somatostatin; Paracrine release; Autocrine function; Prepacemaker nucleus; Pacemaker nucleus; Electric fish; Biocytin; *Apteronotus leptorhynchus* (Stroh, T. (674) 1)

H

H-7
Aplysia; Action potential; Protein kinase C; Phorbol diacetate (Papp, A. (684) 107)

pH
Hippocampus; Synaptic transmission; Potassium; Calcium; Magnesium; Temperature; Hibernation (Igelmund, P. (689) 9)

U-50,488H
Mu-opioid; Kappa-opioid; Delta-opioid; DAMGO; DPDPE; Amphetamine; VTA; Mesoaccumbens dopaminergic system; Feeding; Drinking; Hyperdipsia; Gnawing; Activity; VTA (Badiani, A. (670) 264)

(+)HA-966
Seizure; Glutamate; Glycine; 5,7-Dichlorokynurenic acid; ACPC; D-CPP; AP7; Dizocilpine; Strychnine (Peterson, S.L. (702) 101)

Habenular nucleus
Cytokine; Triangular septal nucleus; Septofimbrial nucleus; Interpeduncular nucleus; Autoradiography; Blood–brain barrier; Capillary; Choroid plexus (Maness, L.M. (700) 83)

Habituation
Acoustic startle response; β-Alanine; Glycine receptor; Hyperekplexia; Prepulse inhibition; Rat; Strychnine (Koch, M. (671) 63)

Songbird; Auditory learning; Attention; 2-Deoxyglucose; Caudal auditory telencephalon (Scharmann, M.G. (682) 83)

Medial geniculate; Amygdala; Conditioning; Extinction; Heart rate; Rabbit (McEchron, M.D. (682) 157)

Audiogenic seizure; Reticular formation; Seizure network; Startle; Genetically epilepsy-prone rat (Faingold, C.L. (704) 218)

Hair cell
Vestibular; Glutamate; Synapse; Inner ear; Turtle (Cochran, S.L. (670) 321)

Aminoglycoside; Endocytosis; Immuno-gold; Cationic ferritin; Toxicity; Chicken (Hashino, E. (704) 135)

Haloperidol
Sigma receptor; Affinity chromatography; 3-PPP; Photoaffinity labeling; Rat cerebellar receptor; Bovine cerebellar receptor (Schuster, D.I. (670) 14)

N-Methyl-D-aspartate; Morphine; MK-801; Dependence; Withdrawal (Kreeger, J.S. (672) 83)

Circadian rhythm; Methamphetamine; Suprachiasmatic nucleus; Locomotor activity; Phase–response curve (Honma, S. (674) 283)

U50,488H; Abnormal posture; σ binding site; Reduced haloperidol; Guinea-pig (Brent, P.J. (684) 115)

Chlorpromazine; Raclopride; Risperidone; Thioridazine; Clozapine; Ritanserin; Fos; Forebrain; Immunohistochemistry (Wan, W. (688) 95)

σ_1 Receptor; Hippocampus; Acetylcholine; SKF-10,047 (*N*-allylnormetazocine); Amnesia; Stereoselectivity; Rat (Matsuno, K. (690) 200)

Angiotensin II; Dopamine; Rotation; Losartan; Striatum; Substantia nigra (Jenkins, T.A. (691) 213)

Dopamine receptor; Dopamine transporter; Hybridization, in situ; Gender effect (Rivest, R. (692) 269)

Microdialysis; Caudate putamen; Cortex; Dopamine; Neurotensin (See, R.E. (704) 202)

Halothane
Thiopental; Isoflurane; Synaptosome; γ-Aminobutyric acid release; Depolarization; Calcium channel (Lecharny, J.-B. (670) 308)

Spreading depression; α-Chloralose; Glutamate; Potassium; Microdialysis (Saito, R. (699) 109)

Hamster
NPY; Circadian; Phase shift; Wheel running; Suprachiasmatic nucleus (Biello, S.M. (673) 25)

Vasopressin; Testosterone; Autoradiography; Medial preoptic area; Anterior hypothalamus; Flank marking (Johnson, A.E. (674) 153)

γ-Aminobutyric acid; Hippocampus; Inferior colliculus; Prion; Scrapie; Immunohistochemistry (Lu, P. (681) 235)

Suprachiasmatic; Transplantation; Aging; Circadian; Neural graft (Viswanathan, N. (686) 10)

Circadian rhythm; α-Fluoromethylhistidine; FMH; Histamine; Light; Suprachiasmatic nucleus (Eaton, S.J. (695) 227)

Hypothalamus; Neuronal nitric oxide synthase; NADPH-diaphorase; Western blot; Circadian system; Vasoactive intestinal polypeptide (Reuss, S. (695) 257)

Activity; c-*fos*; Immunocytochemistry; Intergeniculate leaflet; Neuropeptide Y; Nonphotic; Rhythm; Suprachiasmatic nucleus (Janik, D. (698) 137)

Handling
Gentling; Neonatal period; Maternal separation; Stress; Experimental allergic encephalomyelitis; DA rat (Laban, O. (676) 133)

Harmaline
Autospectral analysis; Coherence analysis; Electroencephalogram; Inferior olivary activity (Barman, S.M. (671) 345)

γ-Aminobutyric acid; Benzodiazepine; Clonazepam; Picrotoxin; Hippocampus (Weiss, M. (695) 105)

HB-GAM
Cerebellum; Heparin-binding; Migration; Adhesion; Differentiation (Wewetzer, K. (693) 31)

HCH isomer
GABA receptor channel; Lindane; Insecticide; Chloride current; Dorsal root ganglion (Nagata, K. (704) 85)

L-N^G-nitro-arginine methyl ester HCl (LNNA)
Nitric oxide; Clonidine HCl; Feeding behavior; Chicken (Choi, Y.-H. (699) 161)

H-current
Suprachiasmatic nucleus; Circadian rhythm; Melatonin; Potassium conductance (Jiang, Z.-G. (687) 125)

[^{3}H]Cyanoimipramine
Quantitative receptor autoradiography; [^{3}H]8-OH-DPAT; 5-HT_{1A} receptor; Serotonin transporter; HPLC; 5-HIAA (Arango, V. (688) 121)

[^{3}H]Cytisine
Brain; Immobilization stress; Chronic nicotine treatment (Takita, M. (681) 190)

[^{3}H]Dopamine uptake
MPTP; Parkinsonism; Oxygen free radical; DMTU; Striatal tissue slice (Heo, J.H. (671) 321)

Head injury
MAP2; Cytoskeleton; Fluid-percussion; Neuropathology; Kynurenate (Hicks, R.R. (678) 151)

Head trauma
Catecholamine; 3-Methoxy-4-hydroxyphenylglycol; MHPG; Contusion; Sensorimotor cortex; Somatosensory cortex (Levin, B.E. (674) 307)

Cell culture; Cerebral cortex; Excitotoxicity; Free radical; Glutamate; Lipid peroxidation (Regan, R.F. (682) 144)

Calcium accumulation; ^{45}Calcium; Cannabinoid; Closed head injury; HU-211 (Nadler, V. (685) 1)

Hearing
Spontaneous activity; Development; Cochlea; Chicken; Basilar papilla; Rhythmic; Auditory nerve (Lippe, W.R. (703) 205)

Heart
Autonomic nervous system; Cardiovascular regulation; Corticotrophin releasing factor; Enkephalin; Lateral hypothalamic area; Medulla oblongata; Neuropeptide Y; Oxytocin; Paraventricular hypothalamic nucleus; Pseudorabies virus; Raphe nuclei; Serotonin; Somatostatin; Stellate ganglion; Sympathetic nervous system (Jansen, A.S.P. (683) 1)

Adrenergic receptor; Cardiac adenylyl cyclase; β-Adrenoceptor signaling; Heterologous sensitization/desensitization of adenylyl cyclase; Isoproterenol; Development (Giannuzzi, C.E. (694) 271)

Heart rate
Intracerebroventricular; Mean arterial pressure; Pirenzepine; 4-DAMP; Methoctramine; Atropine; Anesthesia (Ally, A. (677) 268)

Autoradiography; Nucleus tractus solitarii; Spontaneously hypertensive rat; Angiotensin II; α_2-Adrenoceptor; Blood pressure (Fior, D.R. (679) 168)

Morphine withdrawal; Naloxone; *N*-Methyl-D-aspartate receptor; Nitric oxide; Spinal cord; Blood pressure; Behavior (Buccafusco, J.J. (679) 189)

Medial geniculate; Amygdala; Conditioning; Habituation; Extinction; Rabbit (McEchron, M.D. (682) 157)

Vasopressin; Norepinephrine; Neuropeptide Y; Blood pressure; Sexual dimorphism (Sato, K. (689) 71)

Heat-shock
Proto-oncogene; Immediate-early gene; Middle cerebral artery occlusion; Stroke; Hybridization, in situ (Soriano, M.A. (670) 317)

Phencyclidine; DNQX; Excitotoxicity; AMPA receptor; Cortex; Ketamine; Rat (Sharp, J.W. (687) 114)

Heat shock cognate protein 70
Heat shock protein; Restraint-water immersion stress; Cerebral cortex; Stomach; Rat; mRNA; Northern blotting (Fukudo, S. (675) 98)

Heat-shock protein
Astrocyte; Potassium; Hypertonicity; αB-Crystallin (Iwaki, T. (673) 47)

Heat shock cognate protein 70; Restraint-water immersion stress; Cerebral cortex; Stomach; Rat; mRNA; Northern blotting (Fukudo, S. (675) 98)

Cerebral ischemia; Focal ischemia; HSP27; HSP70; Immunohistochemistry; Rat (Kato, H. (679) 1)

MPTP; MPP^+; Neurotoxicity; Dopamine; Body temperature; Deprenyl (Freyaldenhoven, T.E. (688) 161)

Transient forebrain ischemia; Parvalbumin; Delayed cell death; Gerbil (Ferrer, I. (692) 41)

Hippocampus; Ischemia, in vitro; MAP-2; Tubulin (Raley-Susman, K.M. (694) 94)

mRNA; Hybridization, in situ; Immunohistochemistry; (±)-2-Amino-3-hydroxy-5-methyl-4-isoxazoleacetic acid; MK-801 (Planas, A.M. (700) 289)

Heme degradation
Brain biliverdin reductase; Carbon monoxide; Antioxidant; Bilirubin (Ewing, J.F. (672) 29)

Heme oxygenase
Bilirubin; Cyclic GMP; Cytochrome P_{450}-reductase; Iron; Protoporphyrin (Laitinen, J.T. (694) 246)

Heme protein
δ Opioid receptor; Naltrindole; Hypoxia; Cobalt; 4,6-Dioxoheptanoic acid; NG108-15 cell (Mayfield, K.P. (676) 358)

Hemicholinium-3
Nitric oxide; Learning; Memory; Choline acetyltransferase (Tobin, J.R. (694) 177)

Hemoglobin
Epilepsy; Seizure threshold; Rat; Iron; Amygdala (Löscher, W. (697) 197)

Hemoxygenase
Carbon monoxide; Metabotropic glutamate receptor; Formalin test; Zinc protoporphyrin-IX (Yamamoto, T. (704) 256)

Hen
Diisopropyl phosphorofluoridate; Intermediate filament proteins; Cytoskeletal pro CANP; OPIDN (Gupta, R.P. (677) 162)

Heparan sulfate
Alzheimer's disease; β-Amyloid; Glycosaminoglycan; Chondroitin sulfate; Neurotoxicity; Neurodegeneration; Plaque (Woods, A.G. (697) 53)

Heparin-binding
HB-GAM; Cerebellum; Migration; Adhesion; Differentiation (Wewetzer, K. (693) 31)

Hepatic encephalopathy
Benzodiazepine receptor; Antibiotic; *Acinetobacter*; Rat; Brain (Yurdaydin, C. (679) 42)

Ammonia; Thioacetamide; Peripheral benzodiazepine receptor; Pregnenolone; Neurosteroid (Itzhak, Y. (705) 345)

Herpes simplex virus
Fos; Vagus nerve; Medulla oblongata (Gieroba, Z.J. (675) 329)

Adenovirus; Gene therapy; Thymidine kinase; Spinal cord tumor (Çolak, A. (691) 76)

Herpes simplex virus type 1
Neurotropism; ACTH; Corticosterone; Corticotropin releasing factor-41 (Ben-Hur, T. (702) 17)

Heterogeneity
[^{3}H]Triamcinolone acetonide; Glucocorticoid receptor; Sodium molybdate; Leupeptin; Ion exchange chromatography (Yoneda, Y. (685) 105)

Heterologous sensitization / desensitization of adenylyl cyclase
Adrenergic receptor; Cardiac adenylyl cyclase; Heart; β-Adrenoceptor signaling; Isoproterenol; Development (Giannuzzi, C.E. (694) 271)

Hexobarbital anesthesia threshold
Flumazenil; Diazepam; Lorazepam; Interaction; Electroencephalographic threshold technique (Korkmaz, S. (676) 371)

[^{3}H]GBR 12935
Dopamine transporter; Prefrontal cortex; Piperazine acceptor site; Striatum; Dopamine uptake site (Gordon, I. (674) 205)

***p*-F-HHSiD**
Acetylcholine; AF-DX 116; Brain slice; Carbachol; Estrogen; 4-DAMP; M3; McN-A-343; Muscarinic receptor subtype; Oxotremorine-M; Pirenzepine; Single-unit activity (Kow, L.-M. (694) 29)

5-HIAA
Quantitative receptor autoradiography; [^{3}H]8-OH-DPAT; [^{3}H]Cyanoimipramine; 5-HT$_{1A}$ receptor; Serotonin transporter; HPLC (Arango, V. (688) 121)

Hibernation
Hippocampus; Synaptic transmission; Potassium; Calcium; Magnesium; pH; Temperature (Igelmund, P. (689) 9)

Neuropeptide; Neuron; Central/peripheral nervous system; Sensory cell; Epineurium; Eye; Statocyst; Mollusc; Snail; Immunocytochemistry (Kaufmann, W. (695) 125)

Hibernation medium
Cool storage; Microtransplantation; Dopamine neuron; Parkinson's disease (Nikkhah, G. (687) 22)

High affinity choline transport
Spatial memory; Radial arm maze; Learning strategy; Cholinergic; Rat (Janis, L.S. (679) 99)

High affinity choline uptake
Acetylcholine; Diencephalic amnesia; Hippocampus; Cortex (Béracochéa, D.J. (670) 53)

Glucose; Scopolamine; Cholinergic septo-hippocampal system; Memory; Alzheimer's disease (Micheau, J. (685) 99)

High frequency stimulation
Medial vestibular nucleus; Long term depression; *N*-Methyl-D-aspartate receptor; GABA receptor; Field potential (Grassi, S. (699) 183)

High performance liquid chromatography
β-Endorphin; Met-enkephalin; Cerebrospinal fluid; Analgesia; Arcuate nucleus; Periaqueductal gray; Opioid (Bach, F.W. (690) 167)

Acetylcholine; Calcium; Dissociated cell; Fractional efflux; Glutamate; Striatum (Login, I.S. (697) 271)

Cerebral metabolism; Cerebral circulation; Glutamate; Glutathione; Microdialysis (Yang, C.-S. (698) 237)

Hippocampal cholinergic neurostimulating peptide; Hippocampal cholinergic neurostimulating peptide precursor protein; Radioimmuno-assay; Nervous system; Aging (Ojika, K. (701) 19)

Hilus
Timm stain; Epilepsy; Human; Neuropathology (Masukawa, L.M. (678) 65)

Hindlimb
[^{14}C]Deoxyglucose; Striatum; Caudate-putamen; Motor cortex; Forelimb (Brown, L.L. (686) 207)

Hindpaw withdrawal latency
Calcitonin gene-related peptide; CGRP$_{8-37}$; β-Funaltrexamine; Naltrindole; nor-Binaltorphimine; Naloxone; Opioid receptor (Yu, L.-C. (698) 23)

Hippocampal
Learning; Memory; Recognition; Priming; Rat; Recognition; Anesthesia; Consciousness; Rhinal cortex; Single unit; Visual (Zhu, X.O. (689) 101)

Hippocampal cell culture
β-Amyloid; Neurotoxicity; Glutamate; Excitotoxicity; Neurons; Astrocyte; Cortical cell culture; Alzheimer's disease (Gray, C.W. (691) 169)

Hippocampal cholinergic neurostimulating peptide
Hippocampal cholinergic neurostimulating peptide precursor protein; Radioimmuno-assay; High-performance liquid chromatography; Nervous system; Aging (Ojika, K. (701) 19)

Hippocampal cholinergic neurostimulating peptide precursor protein
Hippocampal cholinergic neurostimulating peptide; Radioimmuno-assay; High-performance liquid chromatography; Nervous system; Aging (Ojika, K. (701) 19)

Hippocampal formation
Nucleus accumbens; Caudate–putamen; AMPA; $GABA_A$; $GABA_B$ (Finch, D.M. (670) 233)

Prenatal protein malnutrition; Rapid kindling; Rat; Fully kindled state; Inhibition (Shultz, P.L. (682) 35)

Hippocampal granule cell
Amygdala; Kindling; Sprague-Dawley rat; Wistar rat; Colchicine (Tsunoda, K. (691) 18)

Hippocampal neuron
Tissue culture; Dendritic growth; Mathematical model (Uemura, E. (671) 187)

Alzheimer's disease; Leak membrane conductance; Amyloid β peptide; β-sheet structure; Aging; Whole-cell voltage-clamp; Circular dichroism spectroscopy (Li, W.Y. (682) 207)

Neuritogenesis; Thrombin; Sprouting; Serum-free (Brewer, G.J. (683) 258)

mRNA stability; Posttranscriptional control; Glutamate; *N*-Methyl-D-aspartate (Jakoi, E.R. (693) 124)

Hippocampal slice
Long-term potentiation; α-Tocopherol; CA1 neuron; Excitatory post-synaptic potential; Vitamin E-deficiency (Xie, Z. (681) 193)

Hypoxia; Glucose deprivation; Intracellular recording; ATP; Intracellular calcium; Lactate (Takata, T. (683) 109)

CA3; Spontaneous epileptiform burst; Mossy fiber stimulation; Phase-locking; Chaos; Strange attractor; One-dimensional strobomap; Spatial coherence (Hayashi, H. (686) 194)

Spermine; Polyamine; CA1; Field potential; Paired-pulse facilitation; Ca^{2+} channel (Ferchmin, P.A. (689) 189)

Hippocampal synaptosomes
ω-Conotoxin GVIA; ω-Agatoxin IVA; ω-Conotoxin MVIIC; Voltage-sensitive calcium channels; Intracellular Ca^{2+} (Malva, J.O. (696) 242)

Hippocampus
Brain slice; Serotonin; 8-OH-DPAT; Bicuculline; Epileptiform; Intracellular (Salgado, D. (669) 176)

Acetylcholine; High affinity choline uptake; Diencephalic amnesia; Cortex (Béracochéa, D.J. (670) 53)

Whole-cell patch; Slice; Inhibition; $GABA_A$; Chloride accumulation; Fast inhibitory postsynaptic current; Disinhibition (Ling, D.S.F. (670) 142)

Ischemia; Sigma receptor; Presynaptic potential; Neuroprotection (Shibata, S. (670) 337)

Long-term potentiation; E–S potentiation; Dendritic membrane activation; Current–source density analysis; Slice; CA1; Rat (Vida, I. (671) 1)

Delayed neuronal death; DNA fragmentation; Apoptosis; Cerebral ischemia; Gerbil (Iwai, T. (671) 305)

Sleep–waking cycle; Acetylcholine; Microdialysis; Electroencephalogram; Theta wave; Cat (Marrosu, F. (671) 329)

Long-term potentiation; Basolateral amygdala; Tetracaine; Neuron activity (Ikegaya, Y. (671) 351)

Protein kinase C; Mouse; Spatial learning; Oxiracetam (Fordyce, D.E. (672) 170)

Associative LTP; CA1 region; Atropine; Acetylcholine; Synaptic plasticity; Rat (Sokolov, M.V. (672) 281)

Sigma receptor; Norepinephrine; *N*-Methyl-D-aspartate receptor; (+)Pentazocine; BD737; DuP 734 (Gonzalez-Alvear, G.M. (673) 61)

Ischemia; Pentobarbital; Acetylcholine; Brain dialysis; Choline acetyltransferase; Delayed neuronal death; Gerbil (Ishimaru, H. (673) 112)

rhNGF; rhbFGF; Dose–response; Cholinergic degeneration; Neurotrophic factor; Fimbria-fornix; Transection (Emmett, C.J. (673) 199)

Selective vulnerability; Global cerebral ischemia; Norepinephrine release; Voltage-dependent calcium channel; Nitrendipine; *N*-Methyl-D-aspartate receptor-channel complex (Hurt, K.J. (673) 226)

Cortisol; Norepinephrine; Urine analysis; Stress; *Tupaia belangeri* (Fuchs, E. (673) 275)

Glutamate; Kainic acid; Microdialysis; Nitric oxide; Rat; Seizure (Rigaud-Monnet, A.-S. (673) 297)

N-Methyl-D-aspartate; Delayed neuronal injury; Glutamate; CA1; Slice (Wallis, R.A. (674) 75)

Ethanol; Glutamate release; Aspartate release; [^{3}H]Noradrenaline release (Sepúlveda, C. (674) 104)

Norepinephrine release; α_2-Adrenoceptor subtype; ARC 239; BRL 44408; Microdialysis; Receptor binding (Kiss, J.P. (674) 238)

Neurotoxicity; Depolarization; Glutamate; *N*-Methyl-D-aspartate; Ca^{2+}; Cl^- (Takahashi, M. (675) 249)

Protein kinase C; Spatial discrimination; Rat (Golski, S. (676) 53)

Alzheimer's disease; Amylin; β2-Microglobulin; Calcium; Fura-2; Prion protein; 2,7-Dichlorofluorescin; Vitamin E (Mattson, M.P. (676) 219)

Neurofilament; Development; Tissue culture; Neural grafting; Immunocytochemistry (Shetty, A.K. (676) 293)

Muscarinic receptor; Medial septum; Sympathetic ingrowth; Lesion; Receptor binding; Pirenzepine (Harrell, L.E. (676) 386)

Muscarinic receptor; Medial septum; Sympathetic ingrowth; Lesion; Internalization; Plasticity (Ayyagari, V. (676) 394)

Epilepsy; Seizure; Tetanus toxin; Electroencephalography; Slice, in vitro (Lee, C.L. (677) 97)

Hypoxia; Hyperexcitability; Adenosine; A_1 receptor; A_2 receptor (Doolette, D.J. (677) 127)

Long-term potentiation; Neural cell adhesion molecule; NCAM; CA1; Synaptic plasticity (Rønn, L.C.B. (677) 145)

S100; Calcium; Neurotrophic; Glucose; Mitochondria (Barger, S.W. (677) 167)

S100β, synaptophysin; Temporal cortex; Temporal pole; Parietal cortex; Hypothalamus; Morphometry; Immunocytochemistry; Serotonin (Azmitia, E.C. (677) 181)

Adenosine; Adenosine receptor; Cerebral cortex; Cerebellum; Striatum; Brain; Immunohistochemistry (Rivkees, S.A. (677) 193)

Adenosine; γ-Aminobutyric acid; Neurosteroid; Alphaxalone; Allopregnan; Purine (Akhondzadeh, S. (677) 311)

γ-Aminobutyric acid; Baclofen; Memory; CGP-35348; D-APV; Plasticity; *N*-Methyl-D-amphetamine (Brucato, F.H. (677) 326)

Serotonin receptor; Phosphoinositide; Development (Ike, J. (678) 49)

Glucose; Lactate; Anoxia; Hypoxia; Ion transport; Synaptic transmission; Brain slice (Roberts, Jr., E.L. (678) 83)

Theta rhythm; Hypothalamic locomotor region; Locomotion (Sławińska, U. (678) 117)

Methandrostenolone; Anabolic steroid; Morris water maze; Corticosterone; Testosterone; Memory (Clark, A.S. (679) 64)

In vivo; Dentate gyrus; Feedback inhibition; Feedforward inhibition (Burdette, L.J. (680) 53)

In vivo; Dentate gyrus; Paired pulse inhibition (Burdette, L.J. (680) 63)

Slice culture; Zinc; 4-Aminopyridine; $GABA_A$ depolarizing potential; $GABA_A$ hyperpolarizing potential; Epileptiform activity (Ricciardi, T.N. (680) 80)

CREB; c-fos; c-*jun*; Krox-24; Kainic acid; Seizure (Blendy, J.A. (681) 8)

Dopamine D_2 receptor; [^{3}H]YM-09151–2; Receptor autoradiography; Rat (Yokoyama, C. (681) 153)

γ-Aminobutyric acid; Hamster; Inferior colliculus; Prion; Scrapie; Immunohistochemistry (Lu, P. (681) 235)

Angiotensin II; Angiotensin IV; AT_4 receptor; Autoradiography; c-Fos expression; Rat; Guinea pig (Roberts, K.A. (682) 13)

Serotonin; Stressor; Microdialysis; Striatum; Cortex; Amygdala; Septum (Kirby, L.G. (682) 189)

Aggression; Y chromosome; Mossy fiber; Mouse (Hensbroek, R.A. (682) 203)

Dentate gyrus; Adrenalectomy; Cell death; Apoptosis; Dexamethasone (Sloviter, R.S. (682) 227)

Picrotoxin; Convulsion; Fos; Immunohistochemistry; Cortex; Thalamus; Caudate-putamen; Rat (Willoughby, J.O. (683) 73)

Recombinant human glial derived neurotrophic factor; rhGDNF; Epilepsy; Seizure; Kainic acid (Martin, D. (683) 172)

Cocaine; Septum; Place-preference conditioning; Reward (Gong, W. (683) 221)

Androgen; Castration; CA1; MK801; *N*-Methyl-D-aspartate; Testosterone; Autoradiography (Kus, L. (683) 270)

Hydrogen peroxide; CA1; Intracellular recording; K^+ channel; Free radical (Seutin, V. (683) 275)

Discrimination learning; Septum; Acetylcholine; Dopamine; Microdialysis; Dual probe; Rat (Yamamuro, Y. (684) 1)

Cerebral ischemia; Ca^{2+}/calmodulin-dependent protein kinase II; Calcineurin; Synaptic plasticity (Onodera, H. (684) 95)

(1*S*,3*R*)-1,3-Aminocyclopentane-3-dicarboxylic acid; Metabotropic glutamate receptor; *N*-Methyl-D-aspartate; LTP; CA1–CA3; Synaptic transmission (Collins, D.R. (684) 165)

Muscarinic receptor; Medial septum; Sympathetic ingrowth; Plasticity (Kolasa, K. (684) 201)

σ site; (+)-SKF 10,047; (−)-SKF 10,047; Phencyclidine (PCP) site; *N*-Methyl-D-aspartate receptor; MK-801; Working memory (Ohno, M. (684) 237)

Protein kinase C; Phorbol ester binding; Inhibitory avoidance; Amygdala; Autoradiography (Bernabeu, R. (685) 163)

Aging; Rat; LTP; Morris water maze (Diana, G. (686) 107)

Astrocyte; Microglia; Cerebellum; Cyclic GMP; Nitric oxide; Noradrenaline; Glutamate (Agulló, L. (686) 160)

Human epilepsy; Immunocytochemistry; Vasoactive intestinal polypeptide; Receptor (De Lanerolle, N.C. (686) 182)

Glucocorticoid receptor mRNA; DSP4 lesion; Desipramine; Fluoxetine (Rossby, S.P. (687) 79)

Thyroid hormone; Enkephalin mRNA; Dynorphin mRNA; Kainic acid; Hybridization, in situ; Rat (Giardino, L. (687) 83)

Glucocorticoid receptor; Adrenalectomy; Western blotting; Binding; Frontal cortex (O'Donnell, D. (687) 133)

CGS 8216; Somatostatin receptor; Ammonium acetate; Frontoparietal cortex; Rat (Boyano-Adánez, M.C. (688) 1)

Synaptic transmission; Potassium; Calcium; Magnesium; pH; Temperature; Hibernation (Igelmund, P. (689) 9)

Rat; Olfaction; Dentate gyrus; Fast wave; Evoked potential; Kainic acid; Colchicine (Heale, V.R. (690) 157)

σ_1 Receptor; Acetylcholine; SKF-10,047 (*N*-allylnormetazocine); Haloperidol; Amnesia; Stereoselectivity; Rat (Matsuno, K. (690) 200)

CA1; Eicosanoid; Epilepsy; Excitotoxicity; Input resistance (Owens Jr, J. (691) 223)

Cerebral ischemia; Microdialysis; Platelet activating factor; Thromboxane A_2 (Pettigrew, L.C. (691) 243)

Atipamezole; Dexmedetomidine; Epilepsy; Kainic acid; Neuronal damage; Status epilepticus (Halonen, T. (693) 217)

Nitric oxide; Nitric oxide synthase; Calcitonin gene-related peptide; Microvessel; Vasodilation (Fergus, A. (694) 78)

Cerebral ischemia; Ischemic tolerance; Microglia; Macrophage; Immunohistochemistry; Rat (Kato, H. (694) 85)

Ischemia, in vitro; MAP-2; Tubulin; Heat shock protein (Raley-Susman, K.M. (694) 94)

Chronic restraint stress; Dendritic spine; Excrescence (Sunanda, (694) 312)

Long-term potentiation; Metabotropic glutamate receptor; (*RS*)-α-Methyl-4-carboxyphenylglycine; *trans*-1-Amino-cyclopentyl-1,3-dicarboxylate; Molecular switch (Thomas, M.J. (695) 45)

γ-Aminobutyric acid; Benzodiazepine; Harmaline; Clonazepam; Picrotoxin (Weiss, M. (695) 105)

Metabotropic glutamate receptor; Presynaptic inhibition; Presynaptic calcium; Transmitter release; Potassium channel (Yoshino, M. (695) 179)

Extra-genomic; γ-Aminobutyric acid; Steroid hormone; Membrane; Perforant pathway; Progesterone (Frye, C.A. (696) 113)

Ectopia; Timm staining; Weaver mouse (Sekiguchi, M. (696) 262)

Angiogenesis; Basic fibroblast growth factor; Intracerebral hemorrhage; Intracerebral mass lesion; Ischemia; Protective effect; Rat (Kawakami, N. (697) 104)

Electroconvulsive shock-induced seizure; Evoked potential (McIntyre Burnham, W. (698) 180)

Pyramidal neuron; Dendrite; Afterhyperpolarization; Calcium-dependent potassium current; Carbachol (Andreasen, M. (698) 193)

Ethanol; *N*-Methyl-D-aspartate; Withdrawal; CGP39551; Magnesium; Field potential (Ripley, T.L. (699) 1)

Adducin; Cell membrane; Cerebellum; Cytoskeleton; Glia; Monoclonal antibody; Synapse (Seidel, B. (700) 13)

Aging; Glucocorticoid receptor; Thyroid hormone receptor; Androgen receptor; Estrogen receptor; Hybridization, in situ histochemistry (Tohgi, H. (700) 245)

Microtubule protein; Cerebral cortex; Cerebellum (Alcantara, A.A. (701) 47)

Extracellular Ca^{2+} concentration; Rat; Serotonin; 5-HT_{1A} receptors; EPSP; EPSC (Schmitz, D. (701) 249)

Vasopressin; Vasopressin(4–8); Transmission; Potentiation; Excitability (Chepkova, A.N. (701) 255)

Retinal degeneration; Mutant; Neuron loss; Genetics (Wimer, R.E. (701) 293)

AT_2 receptor; Autoradiography; OX-42; ED1; Immunohistochemistry; Kainic acid; Gliosis; Angiotensin (Jöhren, O. (702) 153)

Hybridization, in situ; Peptide precursor; Dorsal subiculum; Mamillary body (Nicot, A. (702) 279)

CA1 stratum radiatum; Schaffer collateral; Estrogen; Light cycle; Sex difference (Warren, S.G. (703) 26)

Cerebral ischaemia; Synapse density; Chick; Disector (Horner, C.H. (703) 245)

Corticosterone; Kainic acid; Epileptic activity; RU486; GR-receptor (Talmi, M. (704) 97)

Arteriovenous; Brain slice; Electrophysiology; Hypoglycemia; Hypoxia; Ischemia; Steal (Sekhon, L.H.S. (704) 107)

Acetylcholine release; Atropine; CP 93129; Fimbria-fornix; Mecamylamine; Methiothepin; 2-methyl-Serotonin; Oxotremorine; Septal graft (Cassel, J.-C. (704) 153)

γ-Aminobutyric acid; Glycine; Post-natal; Tissue-culture; Whole-cell current; Single-channel current (Fatima-Shad, K. (704) 246)

Ro 15-4513; $GABA_A$ receptor; Benzodiazepine; Cerebellum; Medulla; Spinal cord (Mehta, A.K. (704) 289)

Circumventricular organ; Guanine nucleotide; Brain angiotensin system; Receptor pharmacology; Quantitative autoradiography (De Oliveira, A.M. (705) 177)

Auditory evoked response; Cholinergic; Fimbria-fornix lesion (Bickford, P.C. (705) 235)

Calcineurin; FK506; Long-term depression; Long-term potentiation; Miniature EPSP (Hodgkiss, J.P. (705) 241)

Methylmercury; Neurotoxicity; Postnatal development; Cerebral cortex; Rat (Wakabayashi, K. (705) 267)

Excitatory transmission; Inhibitory transmission; Metabotropic glutamate receptor; Presynaptic modulation (Ohno-Shosaku, T. (705) 337)

Histamine
H_3 receptor; Stress; Amitriptyline; Cortex (Ghi, P. (690) 104)

Circadian rhythm; α-Fluoromethylhistidine; FMH; Hamster; Light; Suprachiasmatic nucleus (Eaton, S.J. (695) 227)

Blood–brain barrier; Bradykinin; Serotonin; Cerebral endothelium; Vascular permeability (Butt, A.M. (696) 145)

L-Histidine
Conditioned place preference; Morphine; Zolantidine; α-Fluoromethylhistidine (α-FMH); SCH 23390; DA turnover (Suzuki, T. (675) 195)

Histochemistry
Human; Aging; Basal forebrain; Nitric oxide synthase; Nitric oxide; Plasticity (Benzing, W.C. (670) 351)

Baroreceptor; Carotid sinus nerve; Chemoreceptor; Immunocytochemistry; Synapse; Transganglionic transport; Ultrastructure (Gatti, P.J. (693) 133)

Microglia; Neuroglia; Nucleoside diphosphatase; Hypomyelination; Mutant (Vela, J.M. (694) 287)

Brainstem; Fos; Hypothalamus; Medulla; NADPH-Diaphorase; Nitric oxide; Nitroglycerin (Tassorelli, C. (695) 37)

Histology
Anisotropy; Diffusion; Jimpy; Magnetic Resonance Imaging; Myelination (Ono, J. (671) 141)

Gerbil; Global ischemia; Neuroprotection; Microdialysis (Shuaib, A. (702) 199)

Spinal cord; White matter; Ventral funiculus; Motor function; Spontaneous running rat; Permanent microdialysis implantation (Gerin, C. (704) 191)

HIV-1
gp120; Calcium; Synaptosome; Glutamate; Dantrolene; Calcium channel blocker (Nath, A. (678) 200)

gp120; Neurotoxicity; Midbrain culture; *N*-Methyl-D-aspartate; Dopamine uptake (Bennett, B.A. (705) 168)

^{1}H-magnetic resonance spectroscopy
Lactate; Basal ganglia; Motor task; Brain function (Kuwabara, T. (670) 326)

[^{3}H]MK-801
N-Methyl-D-aspartate receptor; Darting behavior; Polyamine; Neuromodulator; Rat prefrontal cortex; Radioligand binding (Savelli, J.E. (682) 41)

[^{3}H]Noradrenaline release
Ethanol; Glutamate release; Aspartate release; Hippocampus (Sepúlveda, C. (674) 104)

Hoffmann reflex gain
Vision; Task complexity (Hoffman, M.A. (700) 303)

[^{3}H]7-OH-DPAT
N-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; [^{3}H]Spiperone; D_3 dopamine receptor; Nucleus accumbens; Olfactory tubercle; Striatum; Rat brain (Levant, B. (698) 146)

[^{3}H]8-OH-DPAT
[^{3}H]WAY-100635; 5-HT_{1A} antagonist; Quantitative autoradiography; Central nervous system; Rat (Khawaja, X. (673) 217)

Quantitative receptor autoradiography; [^{3}H]Cyanoimipramine; 5-HT_{1A} receptor; Serotonin transporter; HPLC; 5-HIAA (Arango, V. (688) 121)

Homocysteine-induced seizure
Immature rat; Cerebral cortex; Glycogen phosphorylase activity; Cyclic AMP (Folbergrová, J. (694) 128)

Homogenate receptor binding
Sensitization; γ-Aminobutyric acid; Neurotoxicity; Dopamine (Lipton, J.W. (676) 378)

Homosexuality
Vasoactive intestinal polypeptide; Vasopressin; Human hypothalamus; Suprachiasmatic nucleus; Sexual orientation (Zhou, J.-N. (672) 285)

Homovanillic acid
Masculine sexual behavior; Sexual exhaustion; Medial preoptic area; Microdialysis; Dopamine; Dihydroxyphenylacetic acid; 5-Hydroxyindoleacetic acid (Mas, M. (675) 13)

Dihydroxyphenylacetic acid; 5-Hydroxyindoleacetic acid; Hypothalamic paraventricular nucleus; Microdialysis, in vivo; Neuropeptide Y; Noradrenaline; Rat (Pavia, J.M. (690) 108)

Horizontal cell
Inward rectifier; Potassium current; Voltage-clamp; Sodium dependency; Retina (Pfeiffer-Linn, C.L. (701) 81)

Hormone
Morphine sulfate; Morphine-3-glucuronide; Morphine-6-glucuronide; Glucose; Catecholamine; Rat; i.c.v. (Hashiguchi, Y. (694) 13)

Horseradish peroxidase
Prefrontal cortex; Thalamus; Anterograde degeneration (Kuroda, M. (677) 348)

Olfactory nerve; Pigeon; Transection; Reinnervation; Quantitative image analysis; Olfactory bulb (Jennings, R.A. (683) 159)

Corticotectal projection; Striate cortex; Extrastriate cortex; Visual field representation; Retinotectal projection (Amer-Ferrer, G. (695) 283)

Foetal alcohol syndrome; Teratogenesis; Axon terminals; Sensorimotor cortex (Santarelli, M. (698) 241)

Liposome; Phenytoin; Amygdala; Dibutyryl-cAMP; Status epilepticus; Blood-brain barrier (Mori, N. (703) 184)

HPLC
Quantitative receptor autoradiography; [^{3}H]8-OH-DPAT; [^{3}H]Cyanoimipramine; 5-HT_{1A} receptor; Serotonin transporter; 5-HIAA (Arango, V. (688) 121)

Luteinizing hormone; Opioid receptor; Norepinephrine; Medial preoptic area; Pregnancy; Push-pull perfusion (Zhen, S. (698) 121)

HPLC-ED
Dorsal root ganglion; Peripheral sensory innervation; Dopamine; DOPA; 3-*O*-methyl-DOPA; Sympathectomy; Rat (Bertrand, A. (681) 201)

[^{3}H]Prazosin
Transplantation; Spinal cord; Noradrenaline; Quantitative autoradiography; α_1-Adrenoceptor (Roudet, C. (677) 1)

[^{3}H]QNB
Rat hippocampus; Neuronal nicotinic acetylcholine receptor; Immunocytochemistry; Up-regulation; Methyllycaconitine; Nicotine (Barrantes, G.E. (672) 228)

H_3 receptor
Histamine; Stress; Amitriptyline; Cortex (Ghi, P. (690) 104)

H-reflex
Human spinal cord; Movement control; Sensorimotor path (Brooke, J.D. (679) 255)

[^{3}H]Resiniferatoxin autoradiography
Vanilloid receptor; Capsaicin-sensitive neuron; Axonal transport; Nodose ganglia; Capsazepine (Szallasi, A. (703) 175)

HSC73
Mimic RT-PCR; HSP72; Ischemia; Rat (Abe, K. (683) 251)

[^{3}H]Serotonin uptake autoradiography
Serotonin axon terminal; Dopamine denervation; Nigrostriatal lesion; Caudate–putamen (Mrini, A. (669) 303)

HSP27
Cerebral ischemia; Focal ischemia; Heat shock protein; HSP70; Immunohistochemistry; Rat (Kato, H. (679) 1)

HSP70
Cerebral ischemia; Focal ischemia; Heat shock protein; HSP27; Immunohistochemistry; Rat (Kato, H. (679) 1)

HSP72
Mimic RT-PCR; HSC73; Ischemia; Rat (Abe, K. (683) 251)

[^{3}H]Spiperone
N-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; [^{3}H]7-OH-DPAT; D_3 dopamine receptor; Nucleus accumbens; Olfactory tubercle; Striatum; Rat brain (Levant, B. (698) 146)

5-HT
Tetanus toxin; DA; Microdialysis (Britton, P. (673) 331)

5-HT_{1A} and NMDA receptor
Spinal cord; Descending serotonergic pathway; Serotonin; 8-OH-DPAT; AP-5; Sleep; EEG power spectrum; Rat (Bjørkum, A.A. (692) 251)

5-HT_{1A} antagonist
[^{3}H]WAY-100635; Quantitative autoradiography; Central nervous system; Rat; [^{3}H]8-OH-DPAT (Khawaja, X. (673) 217)

5-HT_{1A} receptor
Quantitative receptor autoradiography; [^{3}H]8-OH-DPAT; [^{3}H]Cyanoimipramine; Serotonin transporter; HPLC; 5-HIAA (Arango, V. (688) 121)

Guanine nucleotide-binding regulatory protein (G protein); $GABA_B$ receptor; Muscarinic receptor; GTPase activity; Receptor–G protein coupling (Odagaki, Y. (689) 129)

Citalopram; Chronic treatment; Dorsal hippocampus; Microdialysis; Serotonin; Terminal 5-HT autoreceptor (Invernizzi, R. (696) 62)

Extracellular Ca^{2+} concentration; Rat; Hippocampus; Serotonin; EPSP; EPSC (Schmitz, D. (701) 249)

5-HT_{1B} receptors
5-Hydroxytryptamine; Amygdalopiriform cortex; Intracerebral microdialysis; Epilepsy (Kikvadze, I. (692) 111)

5-HT_2 receptor
(±)-1-(2,5-Dimethoxy-4-iodophenyl)-aminopropane; Amphetamine; Apomorphine; Dopamine; D_2 autoreceptor; Microdialysis; Rat (Ichikawa, J. (698) 204)

5-HT_3 receptor
Intestinal anaphylaxis; c-fos; Paraventricular nucleus; Lateral parabrachial nucleus; Nucleus of the solitary tract; Vagus nerve (Castex, N. (688) 149)

Spinal cord; Frog; Serotonin; Excitatory amino acid; *N*-Methyl-D-aspartate receptor (Holohean, A.M. (704) 184)

5-HT$_4$ receptor
GR-113808; Serotonin; Dopamine; Microdialysis; Striatum; Substantia nigra; Nucleus accumbens (Pozzi, L. (692) 265)

[^{3}H]Triamcinolone acetonide
Glucocorticoid receptor; Sodium molybdate; Leupeptin; Ion exchange chromatography; Heterogeneity (Yoneda, Y. (685) 105)

[^{3}H]Tyr-D-Ala-Gly-*N*-methyl-Phe-Gly-ol
Suicide; μ-Opioid receptor; Human brain; Aging; Depression (Gabilondo, A.M. (682) 245)

HU-211
Closed-head injury; Edema; Memory; Rat (Shohami, E. (674) 55)

Calcium accumulation; ^{45}Calcium; Cannabinoid; Closed head injury; Head trauma (Nadler, V. (685) 1)

Photochemical cortical infarction; Blood–brain barrier; Evans blue (Belayev, L. (702) 266)

Human
Aging; Basal forebrain; Histochemistry; Nitric oxide synthase; Nitric oxide; Plasticity (Benzing, W.C. (670) 351)

Melatonin; 5-Methoxytryptophol; Pineal organ; Photoperiod; Season; Circadian rhythm (Hofman, M.A. (671) 254)

Spinal; Ia; II; Locomotion; Stretch; Joint (Cheng, J. (672) 89)

Suicide; Depression; *N*-Methyl-D-aspartate receptor; Glycine; Glutamate; Frontal cortex (Nowak, G. (675) 157)

Angiotensin; Receptor; Subtype; Brain; Losartan; Autoradiography (MacGregor, D.P. (675) 231)

Timm stain; Epilepsy; Neuropathology; Hilus (Masukawa, L.M. (678) 65)

Spinal; Ia afferent-motoneuron; Stretch; Presynaptic; Oligosynaptic (Cheng, J. (681) 197)

Ciliary ganglion; Substance P; Calcitonin gene-related peptide; Vasoactive intestinal polypeptide; Neuropeptide Y; Tyrosine hydroxylase; Dopamine-β-hydroxylase (Kirch, W. (681) 229)

Magnetoencephalography; Motor cortex; Somatosensory cortex; Neuromagnetic source localisation; Somatosensory evoked field; Movement-related magnetic field (Kristeva-Feige, R. (682) 22)

Nitric oxide synthase; NADPHd; Retina; Vasculature; Co-localisation; Rat (Roufail, E. (684) 36)

Somatosensory cortex; Magnetoencephalography; Evoked response; Median nerve; Ulnar nerve (Forss, N. (685) 68)

Iron uptake; Ferrotransferrin receptor; Autoradiography; Parkinson's disease; MPTP (Faucheux, B.A. (691) 115)

Dopamine; Parkinson's disease; Substantia nigra; Synaptic vesicle (Thibaut, F. (692) 233)

Newborn; Brainstem; Neurokinin-1; Substance P; Binding site; Autoradiography (Jordan, D. (695) 117)

Human astrocyte
Antigen-presenting cell; B7-1; B7-2; Costimulatory molecule; Human microglia (Satoh, J.-i. (704) 92)

Human auditory cortex
Middle latency auditory evoked magnetic field; Middle latency auditory evoked response; Magnetoencephalography; Superconducting quantum interference device; Magnetic resonance imaging (Yoshiura, T. (703) 139)

Human brain
Association neocortex; AMPA/kainate receptor; Glutamate receptor; Pyramidal neuron (Vickers, J.C. (671) 175)

Brain; Flavin-containing monooxygenase; Metabolism; Neuroleptic; Antidepressant; Monooxygenase (Bhamre, S. (672) 276)

Basal ganglia; Striatum; Calretinin; Calcium-binding proteins; Immunohistochemistry (Parent, A. (674) 347)

Serotonin receptor; Hybridization histochemistry, in situ; Serotonin; mRNA (Burnet, P.W.J. (676) 157)

Schizophrenia; D_4-dopamine receptor; Guanine nucleotide; Gpp(NH)p; [^{3}H]Raclopride; [^{3}H]YM-09151–2; Major depression (Sumiyoshi, T. (681) 109)

Suicide; μ-Opioid receptor; [^{3}H]Tyr-D-Ala-Gly-*N*-methyl-Phe-Gly-ol; Aging; Depression (Gabilondo, A.M. (682) 245)

Subcellular distribution; Ultrastructure; Receptor; Marker enzyme (Maloteaux, J.-M. (687) 155)

Bcl-2; Oncogene; Alzheimer's disease; Apoptosis; Immunohistochemistry; Neurofibrillary tangle; PHF-1; AT8; Cell death (Satou, T. (697) 35)

Oxytocin; AIDS; Paraventricular nucleus; Hybridization, in situ; Immunocytochemistry (Guldenaar, S.E.F. (700) 107)

Human brain nuclei
Pituitary adenylate cyclase activating polypeptide; Microdissection; Radioimmunoassay (Palkovits, M. (699) 116)

Human brain slice
Facilitation; EPSP–spike relationship; Feedback inhibition; Presynaptic inhibition (Uruno, K. (695) 163)

Human cerebral artery
Nitric oxide synthase; Endothelium; Ultrastructural localization; Translocation; Bradykinin (Fukuda, S.-i. (696) 30)

Human epilepsy
Hippocampus; Immunocytochemistry; Vasoactive intestinal polypeptide; Receptor (De Lanerolle, N.C. (686) 182)

Human hypothalamus
Vasoactive intestinal polypeptide; Vasopressin; Suprachiasmatic nucleus; Sexual orientation; Homosexuality (Zhou, J.-N. (672) 285)

Human medulla
Cerebral blood vessel; Catecholamine; Nitric oxide; Ventrolateral medulla (Benarroch, E.E. (684) 215)

Human microglia
Antigen-presenting cell; B7-1; B7-2; Costimulatory molecule; Human astrocyte (Satoh, J.-i. (704) 92)

Human neocortical slice
Excitatory amino acid; *N*-Methyl-D-aspartate; α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid; Extracellular calcium concentration; Cortical field potential (Lücke, A. (671) 222)

Human neurodevelopment
Fetal CNS; Neural cell differentiation; Signal transduction (Larocca, J.N. (701) 135)

Human oligodendrocyte
Pre-oligodendrocyte; Basic fibroblast growth factor; Statin; Apoptosis (Prabhakar, S. (672) 159)

Human postmortem tissue
Alcoholism; Alcohol, ethyl; Excitatory amino acid receptor; Receptor, glutamate; Receptor, AMPA; Receptor, kainate; Schizophrenia; NCAM; Tau; Western blotting; Immunoreactivity (Breese, C.R. (674) 82)

Human spinal cord
H-reflex; Movement control; Sensorimotor path (Brooke, J.D. (679) 255)

Huntington's disease
Striatum; 3-Nitropropionic acid; Quinolinic acid; Apomorphine; Rotational behavior; Motor behavior asymmetry (Borlongan, C.V. (676) 231)

3-Nitropropionic acid; Progressive spontaneous locomotor activity changes; Striatum; Systemic injection (Borlongan, C.V. (697) 254)

[^{3}H]WAY-100635
5-HT$_{1A}$ antagonist; Quantitative autoradiography; Central nervous system; Rat; [^{3}H]8-OH-DPAT (Khawaja, X. (673) 217)

Hybridization, in situ histochemistry
Hippocampus; Aging; Glucocorticoid receptor; Thyroid hormone receptor; Androgen receptor; Estrogen receptor (Tohgi, H. (700) 245)

Hybridization histochemistry, in situ
Serotonin receptor; Human brain; Serotonin; mRNA (Burnet, P.W.J. (676) 157)

Hybridization, in situ
Insulin-like growth factor I; Neuron cell culture; IGF I receptor; Peroxidase anti-peroxidase; Radioimmunoassay; IGF I internalization (Schechter, R. (670) 1)

Epidermal growth factor; Transforming growth factor-α; Nervous system; Development; Sub-

ventricular zone; Cerebellum (Seroogy, K.B. (670) 157)

Proto-oncogene; Immediate-early gene; Heat-shock; Middle cerebral artery occlusion; Stroke (Soriano, M.A. (670) 317)

Dopamine; Enkephalin; Immediate-early gene; Behavioral sensitization; Nucleus accumbens (Wang, J.Q. (673) 262)

Neuropeptide Y mRNA; Proopiomelanocortin; Arcuate nucleus; Neuropeptide Y receptor; Autoradiography (Garcia de Yebenes, E. (674) 112)

Glucocorticoid; Hypothalamo–pituitary–adrenocortical axis; Gene regulation; mRNA (Herman, J.P. (677) 243)

Hypothalamic-pituitary-adrenal axis; Dementia; Corticosteroid receptor (Wetzel, D.M. (679) 72)

Nicotine; Dopamine D_2 receptor; Receptor–receptor interaction; Tyrosine hydroxylase (Li, X.-M. (679) 157)

Thyroid hormone; Enkephalin mRNA; Dynorphin mRNA; Hippocampus; Kainic acid; Rat (Giardino, L. (687) 83)

Serotonin transporter; Gene expression; Dorsal raphe nucleus; *p*-Chlorophenylalanine; Autoradiography (Yu, A. (688) 209)

Neurotensin; Striatum; Nucleus accumbens; Basal ganglia; Antipsychotic; γ-Aminobutyric acid (Decker, K.P. (691) 9)

Haloperidol; Dopamine receptor; Dopamine transporter; Gender effect (Rivest, R. (692) 269)

Tyrosine hydroxylase mRNA; Pontine noradrenergic cell group; Chronic monoarthritis (Cho, H.-J. (695) 96)

Dopamine D_2-like receptor; Chick retina; Immunocytochemistry; Form-deprivation myopia (Rohrer, B. (695) 110)

Cyclooxygenase-2; Lipopolysaccharide; Fever; Brain; Prostaglandin (Cao, C. (697) 187)

Oxytocin; AIDS; Paraventricular nucleus; Human brain; Immunocytochemistry (Guldenaar, S.E.F. (700) 107)

Preprotachykinin-A mRNA; Preprosomatostatin mRNA; Substance P; Somatostatin; Inflammation; Dorsal root ganglia; Rat (Hanesch, U. (700) 279)

Heat shock protein; mRNA; Immunohistochemistry; (±)-2-Amino-3-hydroxy-5-methyl-4-isoxazoleacetic acid; MK-801 (Planas, A.M. (700) 289)

FGF-2; FGFR1; Rat brain; Anatomy; Central nervous system; Immunohistochemistry (Gonzalez, A.M. (701) 201)

PKC; Kindling; Epilepsy; Gene expression; mRNA; Plasticity (Kamphuis, W. (702) 94)

Peptide precursor; Dorsal subiculum; Hippocampus; Mamillary body (Nicot, A. (702) 279)

Neurotrophin receptor; Retina; Development; Ganglion cell layer; Inner plexiform layer; Inner nuclear layer (Ugolini, G. (704) 121)

Hydrogel
Schwann cell; Regeneration; Rat visual system; Astrocyte; Immunohistochemistry (Plant, G.W. (671) 119)

Hydrogen peroxide
Microdialysis; Ischemia; Striatum (Hyslop, P.A. (671) 181)

Hippocampus; CA1; Intracellular recording; K^+ channel; Free radical (Seutin, V. (683) 275)

Hydroxamate
N-Methyl-D-aspartate; Neurotoxicity; AIDS (Lockhart, B.P. (670) 313)

3α-Hydroxy-5α-pregnan-20-one
Steroid; Anxiety; Motor activity; Burying behavior; Rat; Progesterone (Picazo, O. (680) 135)

γ-Hydroxybutyrate
Prefrontal cortex; Electrophysiology; Dopamine; Sleep; Narcolepsy; Alcohol; Abuse (Godbout, R. (673) 157)

Hydroxycitrate
Control of breathing; Acetylcholine; Isolated brainstem; 3-Bromopyruvate; Citrate; Triethylcholine; Atropine (Burton, M.D. (670) 39)

6-Hydroxydopamine
Rat; Striatum; Cerebrospinal fluid; Dopamine; MPP^+; Parkinson's disease (Espino, A. (669) 19)

Parkinson's disease; Adrenal medullary graft; Sprouting; Retrograde transport; Dopamine uptake; Striatum (Hansen, J.T. (670) 197)

Quinolinic acid; Striatum; Substantia nigra; Dopaminergic system; Neuroprotection (Venero, J.L. (672) 153)

Sensitization; Apomorphine; Glutamate; *N*-Methyl-D-aspartate (Gancher, S. (682) 63)

d-Amphetamine; Dopamine; Locomotor activity; Microdialysis; Neostriatum; Schizophrenia; Stress (King, D. (685) 117)

Unilateral nigrostriatal lesion; Rat; Striatum; Dopamine contents; Ipsilateral rotation (Matsuda, H. (686) 111)

D1 Receptor; D2 Receptor; Dopamine; GBR-12909; Self-injurious behavior; Striatum (Sivam, S.P. (690) 259)

Retrovirus; Gene transfer; Neural transplantation; Rat; Tyrosine hydroxylase; Ex vivo gene therapy (Yoshimoto, Y. (691) 25)

Neurokinin receptor; Substance P; Senktide; Dopamine; Substantia nigra; Parkinson's disease (Bannon, M.J. (695) 19)

1-Methyl-4-phenylpyridinium ion; Microdialysis; Striatum; Rat; Parkinsonism (Espino, A. (695) 151)

L-DOPA; Parkinson's disease; ACh release; Microdialysis; Supersensitization (Ueda, H. (698) 213)

L-DOPA therapy; Parkinson's disease; Neurotoxicity; Dopamine carrier (neuronal); Mouse (Naudin, B. (701) 151)

Aromatic L-amino acid decarboxylase; Dopamine; Striatum; L-Dihydroxyphenylalanine; Parkinson's disease; Immunocytochemistry (Mura, A. (704) 51)

6-hydroxydopamine
Lipopolysaccharide; Astrocyte; Microglia; Tyrosine hydroxylase; Dopamine; Parkinson's disease; Substantia nigra (Bronstein, D.M. (704) 112)

6-Hydroxydopamine lesion
Voltammetry; Cortical; Subcortical; Psychosis (Thompson, T.L. (686) 93)

Dopamine; Basal ganglia; Motor function; On-off phenomenon; Glutamate antagonist; *N*-Methyl-D-aspartate; MK-801 (Papa, S.M. (701) 13)

5-Hydroxyindoleacetic acid
Masculine sexual behavior; Sexual exhaustion; Medial preoptic area; Microdialysis; Dopamine; Dihydroxyphenylacetic acid; Homovanillic acid (Mas, M. (675) 13)

Dihydroxyphenylacetic acid; Homovanillic acid; Hypothalamic paraventricular nucleus; Microdialysis, in vivo; Neuropeptide Y; Noradrenaline; Rat (Pavia, J.M. (690) 108)

Social stress; Serotonin; Animal model; Prefrontal cortex; *Macaca fascicularis* (Fontenot, M.B. (705) 105)

Hydroxyindole-*O*-methyltransferase
Melatonin; Pineal; Retina; Y79 retinoblastoma; Tissue-specific (Bernard, M. (696) 37)

Hydroxyproline
Alzheimer's disease; Basement membrane; Blood–brain barrier; Cerebral microvessel; Collagen IV (Kalaria, R.N. (705) 349)

2-Hydroxysaclofen
Place learning; Morris water maze task; Baclofen; Oxotremorine; Motor incoordination (Nakagawa, Y. (683) 209)

17β-Hydroxysteroid dehydrogenase
Rat brain; Glial cell; Estrogen; Neurosteroid (Pelletier, G. (704) 233)

5-Hydroxytryptamine
Cyclic voltammetry, in vivo; Dopamine; Uptake transporter; Fluoxetine; Nomifensine (Jackson, B.P. (674) 163)

5,7-Dihydroxytryptamine; Dorsal raphe; Median raphe; Lesion; DRL 20s schedule (Fletcher, P.J. (675) 45)

Amygdalopiriform cortex; Intracerebral microdialysis; $5\text{-}HT_{1B}$ receptors; Epilepsy (Kikvadze, I. (692) 111)

Serotonin; Norepinephrine; Tianeptine; Antidepressant (Frankfurt, M. (696) 1)

NPY; Methysergide; Hypothalamus; Rat (Dryden, S. (699) 12)

Rat; Spinal cord stimulation; Periaqueductal gray matter; Microdialysis; γ-Aminobutyric acid; Glutamate; Substance P (Stiller, C.-O. (699) 231)

L-5-Hydroxytryptophan
Aromatic L-amino acid decarboxylase; Serotonin; Monoamine oxidase; Dopaminergic neuron; Noradrenergic neuron; Substantia nigra pars compacta; Locus coeruleus (Arai, R. (669) 145)

[^{3}H]YM-09151-2
Schizophrenia; D_4-dopamine receptor; Guanine nucleotide; Gpp(NH)p; Human brain; [^{3}H]Raclopride; Major depression (Sumiyoshi, T. (681) 109)

Hippocampus; Dopamine D_2 receptor; Receptor autoradiography; Rat (Yokoyama, C. (681) 153)

Hyperactivity
Methylazoxymethanol; Microencephaly; Methamphetamine; Dopamine receptor (Watanabe, M. (670) 173)

Mouse; 5-Azacytidine; Developmental alteration; Brain damage; Parental behavior; Naive female; Experience effect (Londei, T. (677) 61)

Protein synthesis; Axon; Goldfish; M-neuron; Plasticity (Eugenín, J. (677) 319)

Hyperalgesia
Peripheral neuropathy; Neuropeptide Y; Sympathetic nervous system (Tracey, D.J. (669) 245)

Formalin; Orofacial; Plasticity; Rat; Trigeminal (Cadet, R. (676) 189)

Prostaglandin E_2; *N*-Methyl-D-aspartate receptor; Spinal cord; Prostaglandin E_2 receptor (Nishihara, I. (677) 138)

Excitatory amino acid; Nociception; Allodynia; Spinal cord; Chronic pain; Neural graft; Chromaffin cell (Siegan, J.B. (680) 88)

Interleukin-6; α-Melanocyte-stimulating hormone; Prostaglandin; Pain; Central nervous system (Oka, T. (692) 123)

Vagotomy; Rat; Tumor necrosis factor-α; Pain facilitation; Interleukin-1β; Interleukin-1 receptor antagonist; Formalin (Watkins, L.R. (692) 244)

Neuropeptide FF; Antiopioid; Opiate; Pain facilitatory system; Central nervous system (Devillers, J.-P. (700) 173)

Interleukin-1β; Preoptic area; Ventromedial hypothalamus; Analgesia; Diagonal band of Broca; Prostaglandin; α-Melanocyte stimulating hormone; Pain (Oka, T. (700) 271)

Hyperbaric oxygen
Convulsion; Excitatory amino acid; γ-Aminobutyric acid; Ammonia; Brain; Mouse (Mialon, P. (676) 352)

Hyperoxia; Carbon dioxide; Adenosine receptor; Methylxanthine; Seizure (Bitterman, N. (696) 250)

Hypercapnia
Adenosine; Hypoxia; *N*-Methyl-D-aspartate; Nitric oxide; Pial arteriole; Tetrodotoxin (Pelligrino, D.A. (704) 61)

Hyperdipsia
Mu-opioid; Kappa-opioid; Delta-opioid; DAMGO; U-50,488H; DPDPE; Amphetamine; VTA; Mesoaccumbens dopaminergic system; Feeding; Drinking; Gnawing; Activity; VTA (Badiani, A. (670) 264)

Hyperekplexia
Acoustic startle response; β-Alanine; Glycine receptor; Habituation; Prepulse inhibition; Rat; Strychnine (Koch, M. (671) 63)

Hyperexcitability
Hypoxia; Hippocampus; Adenosine; A_1 receptor; A_2 receptor (Doolette, D.J. (677) 127)

Hyperglycemia
Magnetic resonance imaging; Cerebral ischemia; Reperfusion injury; Nitric oxide (Quast, M.J. (677) 204)

Growth hormone; Growth hormone-releasing factor; Somatostatin; Hypoglycemia; Hypothalamic anterolateral deafferentation (Okada, K. (699) 33)

Cerebral blood flow; Mannitol; Laser-Doppler flowmetry; Indomethacin; Nitro-L-arginine methyl ester; Spreading cortical depression; Rat (Duckrow, R.B. (703) 145)

Hyperinnervation
Reinnervation; Hyper-reinnervation; Motor unit; Rat; Muscle (Kuiken, T.A. (676) 113)

Hyperkinesis
Dopamine release; Acetylcholine; Dopamine D_2-receptor; Quinpirole; Sulpiride (Russell, V. (676) 343)

Hypermetabolism
MK-801; NBQX; Glucose utilisation; Limbic system (Patel, T.R. (686) 254)

Hypernatremia
Cerebral cell volume regulation; Development; Organic osmolyte; Taurine (Trachtman, H. (693) 155)

Hyperoxia
Hyperbaric oxygen; Carbon dioxide; Adenosine receptor; Methylxanthine; Seizure (Bitterman, N. (696) 250)

Hyperphagia
Neuropeptide Y; VMH lesion; Immunoneutralization (Dube, M.G. (690) 275)

Obesity; Zucker rat; Cyclo(His-Pro); Dehydroepiandrosterone (Prasad, C. (699) 149)

Hyperreflexia
Nociception; Opiate; Electromyography; RIII reflex; Morphine (Yeomans, D.C. (670) 297)

Hyper-reinnervation
Reinnervation; Hyperinnervation; Motor unit; Rat; Muscle (Kuiken, T.A. (676) 113)

Hypertension
Endothelium; Superoxide dismutase; Indomethacin; Cranial window; *N*-Nitro-L-arginine (Riedel, M.W. (671) 21)

Arginine; Autoregulation; Cerebral blood flow; Nitric oxide; Nitric oxide synthase; Rat (Talman, W.T. (672) 48)

Hypertensive rat
Serotonin 5-HT_2 receptors; Serotonin 5-HT_3 receptors; Supersensitivity; Nucleus; Tractus solitarius; Blood pressure (Merahi, N. (669) 130)

Nitric oxide; Sympathetic preganglionic neuron; Superior cervical ganglion (Tang, F.R. (691) 153)

Hyperthermia
Brain; Focal ischemia; Dizocilpine maleate; Infarct size; Rat (Memezawa, H. (670) 48)

Hypertonia
Osmotic effect; Cell volume; Interstitial space; Tissue resistance; Spreading depression; Synaptic transmission; Water deprivation (Huang, R. (702) 181)

Hypertonicity
Astrocyte; Potassium; αB-Crystallin; Heat-shock protein (Iwaki, T. (673) 47)

Osmoregulation; Nucleus of the solitary tract; Ventrolateral medulla; Parabrachial nucleus; Catecholamine; Cardiovascular regulation; A1 noradrenergic cell group; C1 adrenergic cell group (Hochstenbach, S.L. (674) 46)

Hypertonic saline
Subfornical organ; Hypovolaemia; Polyethylene glycol; Osmotic stress; c-*fos* (Smith, D.W. (698) 232)

Hypnotic activity
Social isolation; Stress; Pentobarbital; Noradrenergic system; CRF; Aggressive behavior (Ojima, K. (684) 87)

Hypoglossal
Phrenic; Control of breathing; Airway (Di Pasquale, E. (695) 271)

Hypoglossal nucleus
Colchicine; Lysosome; Microtubule; Dendrite; Neuronal transport; Fluorescent microsphere (Beske, O. (669) 125)

Hypoglycemia
Growth hormone; Growth hormone-releasing factor; Somatostatin; Hyperglycemia; Hypothalamic anterolateral deafferentation (Okada, K. (699) 33)

Arteriovenous; Brain slice; Electrophysiology; Hippocampus; Hypoxia; Ischemia; Steal (Sekhon, L.H.S. (704) 107)

Hypogonadotropic hypogonadism
Olfaction; Calcium (Rawson, N.E. (681) 58)

Hypomyelination
Microglia; Neuroglia; Nucleoside diphosphatase; Histochemistry; Mutant (Vela, J.M. (694) 287)

Hyponatremia
Osmotic effect; Cell swelling; Extracellular space; Spreading depression; Seizure; Epilepsy; Neuron damage (Huang, R. (695) 195)

Hypophysectomy
Vasopressin; Culture; Meninges; Hypothalamus; Pituitary; Regeneration (Ishikawa, K. (677) 20)

Hypophysiotropic hormone
Neuropeptide; Brain; Amphibian; Reproduction; Immunohistochemistry (Collin, F. (703) 111)

Hypotension
Imidazoline receptor; Nucleus tractus solitarius; Rostral ventrolateral medulla; Clonidine; Barodenervation; Autoradiography (El-Mas, M.M. (691) 195)

RMP-7; Bradykinin analog; Blood–brain barrier; Tight junction; Permeability; Lanthanum (Sanovich, E. (705) 125)

Hypothalamic anterolateral deafferentation
Growth hormone; Growth hormone-releasing factor; Somatostatin; Hyperglycemia; Hypoglycemia (Okada, K. (699) 33)

Hypothalamic locomotor region
Theta rhythm; Hippocampus; Locomotion (Sławińska, U. (678) 117)

Hypothalamic paraventricular nucleus
Calcium-binding protein; Calcium buffer; Calretinin; Salt loading; Supraoptic nucleus; Rat (Arai, R. (673) 339)

Morphometry; Stress; Synaptic organization; Vascularity; Wistar rat (Mulders, W.H.A.M. (689) 47)

Corticotropin-releasing hormone; Fos-immunoreactivity; Pharmacogenetics; Selective breeding; Stress; Wistar rat (Mulders, W.H.A.M. (689) 61)

Dihydroxyphenylacetic acid; 5-Hydroxyindoleacetic acid; Homovanillic acid; Microdialysis, in vivo; Neuropeptide Y; Noradrenaline; Rat (Pavia, J.M. (690) 108)

Ventrolateral medulla; Tyrosine hydroxylase; α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid; Rat; Dual immunocytochemistry; Retrograde tracing (Larsen, P.J. (705) 209)

Hypothalamic-pituitary-adrenal axis
Stress; Corticosterone; Novel environment; Novelty; Sensitization; Context-specific sensitization; Environment-specific sensitization; Rotational behavior; Locomotor activity; Rearing behavior; Rat (Badiani, A. (673) 13)

Hybridization, in situ; Dementia; Corticosteroid receptor (Wetzel, D.M. (679) 72)

Hypothalamic slice
Oxytocin; Norepinephrine release; Estradiol; Progesterone (Etgen, A.M. (703) 242)

Arginine vasopressin; Corticosterone; Calcium (Liu, X. (704) 19)

Hypothalamo-pituitary-adrenal axis
Hypoxia/ischemia; Corticosterone; Degeneration; Seizure (Krugers, H.J. (690) 41)

Rat strain; Novel environments; Tryptophan hydroxylase; Serotonin-1A receptors; Anxiety; Locomotor activity (Chaouloff, F. (693) 169)

Hypothalamo–pituitary–adrenocortical axis
Glucocorticoid; Hybridization, in situ; Gene regulation; mRNA (Herman, J.P. (677) 243)

Hypothalamus
Testosterone; Steroid receptor; Steroid abuse; Athlete; Castration; Immunocytochemistry; Optical density; Opioid peptide (Menard, C.S. (669) 255)

Oxytocin; Prolactin; Lactation; Vasopressin; Posterior pituitary (Ghosh, R. (672) 24)

Rat; Diet; Protein; Brain; Retina; Tyrosine; Dopamine; Catecholamine; Appetite (Fernstrom, M.H. (672) 97)

α_2-Adrenoceptor; Estradiol; Thermodynamics; Signal transduction; Receptor binding; RX821002; Oxymetazoline (Karkanias, G.B. (674) 26)

β-Endorphin; Opioid; Medial preoptic area; Estrogen; Progesterone; Lordosis (Cheung, S. (675) 83)

Satiety substance; c-fos; Tyrosine hydroxylase; Immunohistochemistry; Rat (Hisano, S. (676) 409)

Vasopressin; Culture; Meninges; Pituitary; Regeneration; Hypophysectomy (Ishikawa, K. (677) 20)

S100β, synaptophysin; Hippocampus; Temporal cortex; Temporal pole; Parietal cortex; Morphometry; Immunocytochemistry; Serotonin (Azmitia, E.C. (677) 181)

Fos-like immunoreactivity; Dehydration; Polydipsia; Circumventricular organ; Water balance; Inbred mouse (Ueta, Y. (677) 221)

Alzheimer; Nucleus tuberalis; Alz-50; Golgi apparatus; Lipofuscin (Salehi, A. (678) 29)

β-Endorphin; Cell culture; Cyclic AMP; Progesterone; Estrogen (Yang, Z. (678) 251)

Fos immunoreactivity; Ethanol; Amygdala; Edinger–Westphal nucleus; Parabrachial nucleus; Dehydration; Vasopressin (Chang, S.L. (679) 89)

Diabetes mellitus; Experimental; Rat; Streptozocin; Somatotropin-releasing hormone; Somatostatin (Leidy, Jr., J.W. (681) 84)

Vasoactive intestinal polypeptide; Hypothyroidism; Forebrain; Circumventricular region; Immunocytochemistry (Toni, R. (682) 101)

Estrogen receptor; Gonadotropin-releasing hormone; Preoptic area; Rhesus macaque (Sullivan, K.A. (685) 198)

Thermoregulation; Nucleus reuniens; Electrophysiology, in vitro; Thalamus temperature sensitive (Travis, K.A. (686) 17)

Vasopressin; *Tupaia belangeri*; Immunocytochemistry; Immunoelectron microscope (Luo, Y. (687) 191)

Microdialysis; Noradrenaline; Paraventricular nucleus; Neuropeptide Y; Stress; Opioid system (Shibasaki, T. (688) 189)

Estrogen receptor; Immunocytochemistry (Sisk, C.L. (688) 198)

Norepinephrine; Dopamine; Estrous cycle; Aging; Push–pull perfusion (ThyagaRajan, S. (689) 122)

Circadian rhythm; Reproduction; Neuroanatomy; Immunocytochemistry; Electron microscopy; Estrogen receptors (Watson, Jr., R.E. (689) 254)

Neurohypophysis; Plasticity; Anti-F3 antibody; Colchicine (Olive, S. (689) 271)

Rat; Neuropeptide Y; Zucker; Obesity (Dryden, S. (690) 185)

Prenatal morphine; μ Opioid receptor; Sex dimorphism (Rimanóczy, A. (690) 245)

β-Endorphin; Cell culture; Cyclic AMP; Glutamate; *N*-Methyl-D-aspartate (Yang, Z. (692) 129)

Morphine; Analgesia; Microdialysis; Spinal cord; Dorsal raphe; Serotonin (Matos, F.F. (693) 187)

Calcium channel; GT1-7 neuron; Voltage-dependent Ca^{2+} channel; Nimodipine; BayK 8644; Conotoxin; GnRH (Javors, M.A. (694) 49)

Brain mapping; Thalamus; Paraventricular nucleus; Microinjection; Nociception; Anorexia; Fever (Sellami, S. (694) 69)

Neuropeptide Y; Nicotine; Energy balance; Rat (Frankish, H.M. (694) 139)

Brain slice; γ-Aminobutyric acid; Circadian rhythm (Gannon, R.L. (694) 264)

Brainstem; Fos; Histochemistry; Medulla; NADPH-Diaphorase; Nitric oxide; Nitroglycerin (Tassorelli, C. (695) 37)

Neuronal nitric oxide synthase; Hamster; NADPH-diaphorase; Western blot; Circadian system; Vasoactive intestinal polypeptide (Reuss, S. (695) 257)

NPY; 5-Hydroxytryptamine; Methysergide; Rat (Dryden, S. (699) 12)

Brown adipose tissue; Non-shivering thermogenesis; Thermoregulation; Decerebration; Neonate (Blumberg, M.S. (699) 214)

Nitric oxide synthase; Endotoxin; Corticotropin-releasing factor; Vasopressin (Lee, S. (705) 136)

Neuropeptide Y; β-Endorphin; Luteinizing hormone; Feeding; Opiate; Push–pull perfusion (Kalra, P.S. (705) 353)

Hypothalmus
Carboxylesterase; Oligodendrocyte; Cingulate cortex; Spinal trigeminal nucleus (Yamada, T. (674) 175)

Hypothermia
Brain temperature; Djungarian hamster; Electroencephalogram; Torpor; Spectral analysis (Deboer, T. (670) 153)

Calcium channel; ω-Conopeptide MVIIC; Conopeptide; Brain ischemia; Excitatory amino acid; Microdialysis; Rabbit (Wu, G. (692) 118)

Injury; Microtubule; Varicosity; Cell culture; Transport (Emery, D.G. (692) 161)

Intracerebroventricular; Pituitary adenylate cyclase-activating polypeptide; Vasoactive intestinal polypeptide; Thyrotropin-releasing hormone; Spontaneous motor activity; Rearing behavior; Reserpine (Masuo, Y. (700) 219)

Hypothyroidism
Vasoactive intestinal polypeptide; Forebrain; Hypothalamus; Circumventricular region; Immunocytochemistry (Toni, R. (682) 101)

Hypovolaemia
Subfornical organ; Polyethylene glycol; Osmotic stress; Hypertonic saline; c-*fos* (Smith, D.W. (698) 232)

Hypoxia
Sigma site; *N*-Methyl-D-aspartate; Kainate; Neurotoxicity; Kappa opioid (Lockhart, B.P. (675) 110)

δ Opioid receptor; Naltrindole; Heme protein; Cobalt; 4,6-Dioxoheptanoic acid; NG108-15 cell (Mayfield, K.P. (676) 358)

Carotid body; Glomus cell; Intracellular potassium (Zhang, X.-Q. (676) 413)

Hippocampus; Hyperexcitability; Adenosine; A_1 receptor; A_2 receptor (Doolette, D.J. (677) 127)

Glucose; Lactate; Hippocampus; Anoxia; Ion transport; Synaptic transmission; Brain slice (Roberts, Jr., E.L. (678) 83)

Hippocampal slice; Glucose deprivation; Intracellular recording; ATP; Intracellular calcium; Lactate (Takata, T. (683) 109)

Cortex; Brainstem; Anoxia; Electrophysiology; In vitro; Brain slice (O'Reilly, J.P. (683) 179)

Fodrin; MAP 2; Calpain; Neonatal; Brain damage; Ischemia (Blomgren, K. (684) 136)

Calpain; Fodrin; Neonatal; Brain damage; Ischemia (Blomgren, K. (684) 143)

Calcium channel; Diltiazem; MK-801; Neuroprotection; Synergy (Schurr, A. (684) 233)

Endorphin; Methionine-enkephalin; Respiration; Microdialysis; Newborn; Swine; Development (Yan, S. (687) 217)

N-Methyl-D-aspartate; Dopamine; Voltammetry (Wang, Y. (693) 233)

Immediate-early response gene; c-*fos*; Pheochromocytoma-12 cell; Nerve growth factor; Neuroblastoma cell; Fibroblast (Prabhakar, N.R. (697) 266)

Adenosine; Hypercapnia; *N*-Methyl-D-aspartate; Nitric oxide; Pial arteriole; Tetrodotoxin (Pelligrino, D.A. (704) 61)

Arteriovenous; Brain slice; Electrophysiology; Hippocampus; Hypoglycemia; Ischemia; Steal (Sekhon, L.H.S. (704) 107)

Hypoxia / hypoglycemia
Ethanol; 2-Deoxyglucose; Chronic treatment; Withdrawal syndrome; Tolerance (Shibata, S. (673) 320)

Hypoxia-ischemia
Apoptosis; Internucleosomal cleavage; Neonatal; DNA damage; Cell death (Hill, I.E. (676) 398)

Newborn; Brain slice; Ornithine decarboxylase; Development (Packianathan, S. (688) 61)

Corticosterone; Degeneration; Seizure; Hypothalamo-pituitary-adrenal axis (Krugers, H.J. (690) 41)

I

Ia
Spinal; II; Locomotion; Stretch; Joint; Human (Cheng, J. (672) 89)

Ib; Cutaneous; Locomotion (Misiaszek, J.E. (702) 271)

Ia afferent
Muscle spindle; Reinnervation; Nerve regeneration (Scott, J.J.A. (671) 325)

Ia afferent-motoneuron
Spinal; Stretch; Presynaptic; Oligosynaptic; Human (Cheng, J. (681) 197)

Ia ending excitability
Primary muscle spindle afferent; Ramp stretch response; Sinusoidal superimposition; Receptor current (Schäfer, S.S. (705) 216)

Ib
Ia; Cutaneous; Locomotion (Misiaszek, J.E. (702) 271)

Ib afferent
Muscle receptor; Tendon organ; Motor unit; Contractile force; Muscle contraction (Davies, P. (690) 82)

Tendon organ; Motor unit; Nerve regeneration; Reinnervation; Transduction (Scott, J.J.A. (697) 225)

Cutaneous afferent; Pain; Motor control; Man (Rossi, A. (700) 164)

Ibogaine
Noribogaine; Desmethyl ibogaine; Opioid receptor (Pearl, S.M. (675) 342)

ICAM-1 expression
Transient; Middle cerebral artery (Zhang, R.-L. (682) 182)

ICC
Nerve growth factor receptor; Zinc; Mossy fiber; Septal lesion (Yu, C. (672) 55)

ICI118551
Fos; Stress; Noradrenergic system; Prazosin; Betaxolol; Fluphenazine; Ketanserin; WAY 100135 (Stone, E.A. (694) 279)

ICSS
7-OH-DPAT; Dopamine D_3 receptor; Autoreceptor; Voltammetry (Gilbert, D.B. (681) 1)

Ictal
Metabotropic glutamate receptor; MCPG; Epilepsy; 4-Aminopyridine; Amygdala; Interictal; mGluR (Arvanov, V.L. (669) 140)

i.c.v.
Morphine sulfate; Morphine-3-glucuronide; Morphine-6-glucuronide; Glucose; Catecholamine; Hormone; Rat (Hashiguchi, Y. (694) 13)

Idazoxan
α_{2A}-Adrenergic receptor; Imidazoline I_1- and I_2-receptor(s); Rilmenidine; Clonidine; Autoradiography (King, P.R. (675) 264)

IFN-γ
Alzheimer's disease; Microglia; Nitric oxide; β-Amyloid (Goodwin, J.L. (692) 207)

IGF I internalization
Insulin-like growth factor I; Neuron cell culture; IGF I receptor; Peroxidase anti-peroxidase; Hybridization, in situ; Radioimmunoassay (Schechter, R. (670) 1)

IGF I receptor
Insulin-like growth factor I; Neuron cell culture; Peroxidase anti-peroxidase; Hybridization, in situ; Radioimmunoassay; IGF I internalization (Schechter, R. (670) 1)

Ih
Guinea pig; Ambiguus neuron; Rectification; Afterhyperpolarization; Ca^{2+}-mediated K^+ current; Norepinephrine; Signal-to-noise ratio (Nishimura, Y. (702) 213)

II
Spinal; Ia; Locomotion; Stretch; Joint; Human (Cheng, J. (672) 89)

IL-1β
LIF; Axotomy; Receptor; Substance P; Sympathetic; Regulation; Nuclease protection assay; mRNA; Schwann cell; Fibroblast (Ludlam, W.H. (685) 12)

IL-1 receptor
ACTH; Corticotropin releasing factor; Dexamethasone; Pituitary; Stress (Takao, T. (688) 219)

Illumination
c-*fos*; c-*jun*; Immediate-early gene; Photoreceptor; Plastic change; Regeneration; Retina (Mallo, G. (693) 196)

Image analysis
Nucleus basalis; Glutamate receptor subtype; *N*-Methyl-D-aspartate receptor; AMPA receptor; Kainate receptor; Autoradiography; γ-Aminobutyric acid receptor; Benzodiazepine receptor (Roßner, S. (696) 165)

Imaging
Intrinsic optical properties; Cell swelling; Spectrophotometry; Brain slice; Rat (Kreisman, N.R. (693) 179)

Purkinje cell; Voltage sensitive dye; Fluorescence (Kogan, A. (700) 235)

IMHV
Protein kinase C; PKC; Isoenzyme; Imprinting; Double-labeling; Neuron-specific enolase; S100; Glial cell (Van der Zee, E.A. (676) 41)

Imidazobenzodiazepine
Purkinje cell; Microiontophoresis; γ-Aminobutyric acid (GABA); Alcohol; Ro15-4513 (Lee, R.-S. (687) 1)

Imidazoline I_1- and I_2-receptor(s)
α_{2A}-Adrenergic receptor; Rilmenidine; Clonidine; Idazoxan; Autoradiography (King, P.R. (675) 264)

Imidazoline receptor
Nucleus tractus solitarius; Rostral ventrolateral medulla; Clonidine; Barodenervation; Hypotension; Autoradiography (El-Mas, M.M. (691) 195)

Imipenem
DBA/2 mouse; Excitatory amino acid antagonist; Anticonvulsant drug; Epilepsy seizure; Audiogenic seizure (De Sarro, G. (671) 131)

Imipramine
Serotonin transporter; mRNA; Midbrain raphe; Serotonin depletion (Linnet, K. (697) 251)

Immature rat
Cerebral cortex; Glycogen phosphorylase activity; Cyclic AMP; Homocysteine-induced seizure (Folbergrová, J. (694) 128)

Immediate-early gene
Feeding; Peptide; Insulin; NPY; Glucose (Lambert, P.D. (670) 59)

Proto-oncogene; Heat-shock; Middle cerebral artery occlusion; Stroke; Hybridization, in situ (Soriano, M.A. (670) 317)

Dopamine; Enkephalin; Behavioral sensitization; Hybridization, in situ; Nucleus accumbens (Wang, J.Q. (673) 262)

Wistar rat; WKY rat; Osmoreception; Paraventricular hypothalamus; Supraoptic nucleus; Lamina terminalis; Area postrema (Rowland, N.E. (675) 127)

c-*fos*; Transcription factor; Visual system (Montero, V.M. (690) 189)

c-*fos*; c-*jun*; Illumination; Photoreceptor; Plastic change; Regeneration; Retina (Mallo, G. (693) 196)

2-Deoxyglucose; Development; Egr-1; Immunohistochemistry; Learning; Odor exposure; Olfactory preference; Transcription factor (Johnson, B.A. (699) 192)

c-*fos*; D_1 receptor; D_2 receptor; Synergism; Globus pallidus; Subthalamic nucleus; SKF 38393; Quinpirole (Ruskin, D.N. (703) 156)

Immediate-early response gene
Hypoxia; c-*fos*; Pheochromocytoma-12 cell; Nerve growth factor; Neuroblastoma cell; Fibroblast (Prabhakar, N.R. (697) 266)

Immobilization
Acute and chronic stress; Brain protein synthesis; Autoradiography; L-[^{35}S]Methionine; Rat (Giaume, M. (675) 121)

Immobilization stress
[^{3}H]Cytisine; Brain; Chronic nicotine treatment (Takita, M. (681) 190)

Locus coeruleus; Push–pull superfusion; Glutamate release; Aspartate release; GABA release; Tail pinch; Blood pressure (Singewald, N. (704) 42)

Immunoautoradiography
Glucose transport; Brain metabolism; Local cerebral glucose utilization; Autoradiography; Glucose metabolism; Antibody (Zeller, K. (698) 175)

Immunoblotting
Cytochrome P450scc; Localization; Immunohistochemistry; Brain; Japanese quail (Usui, M. (678) 10)

Immunocytochemistry
Testosterone; Steroid receptor; Steroid abuse; Athlete; Hypothalamus; Castration; Optical density; Opioid peptide (Menard, C.S. (669) 255)

AMPA receptor; Ultrastructure; Confocal microscopy; Vestibular system; Rat; Guinea pig (Demêmes, D. (671) 83)

Opioid receptor; Eye; Enkephalin; Growth; Cell renewal; Zeta (ζ) receptor; Evolution; Neuropeptide (Zagon, I.S. (671) 105)

Adrenaline; Brainstem; Fos; Luteinising hormone; Noradrenaline (Condé, G.L. (672) 68)

Rat hippocampus; Neuronal nicotinic acetylcholine receptor; Up-regulation; Methyllycaconitine; Nicotine; [^{3}H]QNB (Barrantes, G.E. (672) 228)

Basal forebrain; Cat; Enkephalin; Substance P; Cholinergic system (Rieck, R.W. (672) 237)

$AVP_{(4-9)}$; $AVP_{(4-8)}$; Fragment peptide; Receptor autoradiography; Cell culture; Intracellular Ca^{2+}; Fura-2 (Jurzak, M. (673) 349)

Transferrin binding protein; Avian brain; Oligodendrocyte (Cho, S.S. (674) 15)

Arcuate nucleus; Galanin; Estrogen receptor; Female rat (Horvath, T.L. (675) 321)

Taurine; Organ of Corti; Rat; Guinea pig (Usami, S.-i. (676) 277)

Glutamate; Glutamine; Compartmentation; Vestibular endorgan; Rat (Usami, S.-i. (676) 285)

Hippocampus; Neurofilament; Development; Tissue culture; Neural grafting (Shetty, A.K. (676) 293)

Alzheimer's disease; β-Amyloid precursor protein; Neurodegeneration; Thiamine deficiency; Wernicke–Korsakoff syndrome (Calingasan, N.Y. (677) 50)

S100β, synaptophysin; Hippocampus; Temporal cortex; Temporal pole; Parietal cortex; Hypothalamus; Morphometry; Serotonin (Azmitia, E.C. (677) 181)

Protein kinase C gamma; Tolerance; Morphine; Spinal cord; Analgesia (Mao, J. (677) 257)

Retina; γ-Aminobutyric acid; Müller cell; Ischaemia (Barnett, N.L. (677) 337)

Cell culture; Astrocyte; Astroglia; Neuron; Gluconeogenesis (Schmoll, D. (677) 341)

Alzheimer's disease; Amyloid β protein; Diffuse plaque; Amyloid angiopathy; Cerebellum; Enzyme-linked immunosorbent assay (Tamaoka, A. (679) 151)

Axonal reticulum; Nerve ligation; Noradrenergic neuron; Axonal transport; Neurosecretory granule; Nerve terminal (Quatacker, J. (680) 36)

Vasoactive intestinal polypeptide; Hypothyroidism; Forebrain; Hypothalamus; Circumventricular region (Toni, R. (682) 101)

Myosin light chain kinase; Myosin; Myosin heavy chain; Calmodulin; Central nervous system; Bovine (Shimada, H. (682) 212)

Mesolimbic; Catecholamine; Striatum; Ultrastructure (Van Bockstaele, E.J. (682) 215)

Sodium channel; Mechanoreceptor; Spider; Glia; Sensory; Arthropod (Seyfarth, E.-A. (683) 93)

Dorsal raphe nucleus; β-Endorphin; Nitric oxide synthase; Synapse; Electron microscopy (Wang, Q.-P. (684) 185)

GnRH; Light; Reproduction; Phenotypic variation; Deer mouse (Korytko, A.I. (685) 135)

Apolipoprotein E; Apolipoprotein J; Alzheimer's disease; Down's syndrome; β-Amyloid; Fibrillogenesis; Immunoelectron microscopy (Kida, E. (685) 211)

Dental nerve; Development; Nerve injury; TrkB; Neurotrophin (Foster, E. (686) 123)

Hippocampus; Human epilepsy; Vasoactive intestinal polypeptide; Receptor (De Lanerolle, N.C. (686) 182)

Vasopressin; Hypothalamus; *Tupaia belangeri*; Immunoelectron microscope (Luo, Y. (687) 191)

Estrogen receptor; Hypothalamus (Sisk, C.L. (688) 198)

Calcium-binding protein; Olfaction (Porteros, A. (689) 93)

Circadian rhythm; Reproduction; Neuroanatomy; Hypothalamus; Electron microscopy; Estrogen receptors (Watson, Jr., R.E. (689) 254)

Substantia gelatinosa; Dorsal horn; Lamina I; Electron microscopy; Double labelling; Immunogold (Ma, W. (692) 99)

Baroreceptor; Carotid sinus nerve; Chemoreceptor; Histochemistry; Synapse; Transganglionic transport; Ultrastructure (Gatti, P.J. (693) 133)

Suprachiasmatic nucleus; Aging; Vasopressin; Vasoactive intestinal polypeptide; Light intensity (Lucassen, P.J. (693) 261)

Dopamine D_2-like receptor; Chick retina; Hybridization, in situ; Form-deprivation myopia (Rohrer, B. (695) 110)

Neuropeptide; Neuron; Central/peripheral nervous system; Sensory cell; Epineurium; Eye; Statocyst; Mollusc; Snail; Hibernation (Kaufmann, W. (695) 125)

Brainstem; Cerebellum; S-100β; Trypsinization (Yang, Q. (696) 49)

Corpus callosum; Interhemispheric; Retrograde tracing; Cholera toxin B; Double labeling (Gonchar, Y.A. (697) 27)

Activity; c-*fos*; Hamster; Intergeniculate leaflet; Neuropeptide Y; Nonphotic; Rhythm; Suprachiasmatic nucleus (Janik, D. (698) 137)

Song control nucleus; Male sexual behavior; Volume reconstruction; Zebra finch; *Taeniopygia guttata* (Ball, G.F. (699) 83)

Oxytocin; AIDS; Paraventricular nucleus; Hybridization, in situ; Human brain (Guldenaar, S.E.F. (700) 107)

Astrocyte; Calcium; Protein kinase C; Suprachiasmatic nucleus; Vasopressin (Van der Zee, E.A. (701) 99)

Amyloid β-protein; Diffuse plaque; Alzheimer's disease; Cerebrovascular amyloid (Iizuka, T. (702) 275)

GAD; WGA-gold; Retrograde labeling; Dentate gyrus; CA1; Rat (Qiu, K. (702) 287)

Aromatic L-amino acid decarboxylase; Dopamine; Striatum; 6-Hydroxydopamine; L-Dihydroxyphenylalanine; Parkinson's disease (Mura, A. (704) 51)

Cortical graft; Neuropeptide; Calcium-binding protein (Bele, S. (704) 210)

Immunoelectron microscope
Vasopressin; Hypothalamus; *Tupaia belangeri*; Immunocytochemistry (Luo, Y. (687) 191)

Immunoelectron microscopy
Amyloid protein precursor; Transient global ischemia; Gerbil; Axonal transport; Multivesicular body (Tomimoto, H. (672) 187)

Apolipoprotein E; Apolipoprotein J; Alzheimer's disease; Down's syndrome; β-Amyloid; Fibrillogenesis; Immunocytochemistry (Kida, E. (685) 211)

Immunofluoresence
OBCAM; Opioid receptor; Transfection (Lane, C.M. (698) 15)

Immunogold
Lateral cervical nucleus; Ventral posterolateral nucleus; Synaptic vesicle; Amino acid; Somatosensory (Kechagias, S. (675) 316)

Substantia gelatinosa; Dorsal horn; Lamina I; Electron microscopy; Double labelling; Immunocytochemistry (Ma, W. (692) 99)

Aminoglycoside; Hair cell; Endocytosis; Cationic ferritin; Toxicity; Chicken (Hashino, E. (704) 135)

Immunogold reaction
L-Glutamate; γ-Aminobutyric acid; Spinal cord; Retrograde tracing; Spinomedullary neuron (Maxwell, D.J. (676) 103)

Gephyrin; Spinal cord; Retrograde tracing; Postsynaptic dorsal column pathway (Maxwell, D.J. (690) 127)

Immunohistochemical estimation
Substance P; Microphotometry; Thiamine deficiency; Antinociceptive effect; Spinal cord (Tadano, T. (696) 21)

Immunohistochemistry
Hydrogel; Schwann cell; Regeneration; Rat visual system; Astrocyte (Plant, G.W. (671) 119)

Amygdala; Epileptogenesis; Kindling; Rat (Ebert, U. (671) 338)

Basal ganglia; Striatum; Calretinin; Calcium-binding proteins; Human brain (Parent, A. (674) 347)

Bergmann glia; Western blotting; Astroglia (Mendis, D.B. (676) 69)

Chemical hypoxia; Protein kinase C; Differentiated PC12 cells; Cyanide; Western blotting; LDH; Cytotoxicity (Pavlaković, G. (676) 205)

Satiety substance; c-fos; Tyrosine hydroxylase; Hypothalamus; Rat (Hisano, S. (676) 409)

Serotonin; γ-Aminobutyric acid; Glutamic acid decarboxylase; Nucleus raphe magnus; Dorsal raphe nucleus; Colocalization (Stamp, J.A. (677) 39)

Adenosine; Adenosine receptor; Hippocampus; Cerebral cortex; Cerebellum; Striatum; Brain (Rivkees, S.A. (677) 193)

Cytochrome P450scc; Localization; Immunoblotting; Brain; Japanese quail (Usui, M. (678) 10)

Cerebral ischemia; Focal ischemia; Heat shock protein; HSP27; HSP70; Rat (Kato, H. (679) 1)

SCG; Decentralization; GAP-43; p38 (synaptophysin); Confocal laser scanning microscopy (Hou, X.-E. (679) 49)

Catecholamine; Serotonin; Tyrosine hydroxylase; Cardiovascular (Allen, G.V. (680) 117)

Neurocalcin; Calcium-binding protein; Inner ear; Rat (Iino, S. (680) 128)

γ-Aminobutyric acid; Hamster; Hippocampus; Inferior colliculus; Prion; Scrapie (Lu, P. (681) 235)

Excitatory amino acid; Glutamate receptor; Dentate gyrus; Ammon's horn (Blümcke, I. (682) 239)

Picrotoxin; Convulsion; Fos; Cortex; Thalamus; Caudate-putamen; Hippocampus; Rat (Willoughby, J.O. (683) 73)

Connexin-43; Astrocyte; Gap junction; Kainic acid; *N*-Methyl-D-aspartate; Transblot, in situ (Sawchuk, M.A. (683) 153)

Calcium binding protein; Neuropeptide Y; Retrograde neuronal tracing; Autonomic nervous system; Sympathetic neuron; Chemical coding (Grkovic, I. (684) 127)

Astrocyte; Intermediate filament; Auditory brainstem nucleus; Aging (Jalenques, I. (686) 223)

Goldfish, brain; Tyrosine hydroxylase; Dopaminergic; Neuron; MPTP; Parkinson's disease; Animal model; Microscopy; Ultrastructure (Goping, G. (687) 35)

c-Fos protein; Sneeze; Trigeminal nerve; Respiratory reflex; Cat (Wallois, F. (687) 143)

Haloperidol; Chlorpromazine; Raclopride; Risperidone; Thioridazine; Clozapine; Ritanserin; Fos; Forebrain (Wan, W. (688) 95)

Substance P; Synapse; Nucleus tractus solitarius; Paraventricular hypothalamic nucleus; WGA-HRP-colloidal gold; Retrograde tract tracing; Electron microscopy (Kawano, H. (689) 136)

Enkephalin; Cerebellar nucleus; Cervical cord; Cerebellospinal projection; Rat; Double labelling (Ikeda, M. (690) 225)

Electron microscopy; Neuron; Plasma membrane; Lysosome; Apolipoprotein E (Tooyama, I. (691) 235)

PG-21; SNB; Steroid; Testosterone; Spinal cord (Lubischer, J.L. (694) 61)

Cerebral ischemia; Ischemic tolerance; Microglia; Macrophage; Hippocampus; Rat (Kato, H. (694) 85)

Suprachiasmatic nucleus; Tyrosine hydroxylase; Ontogenesis; Confocal laser scanning mi-

croscopy; Vasoactive intestinal polypeptide; Somatostatin; Neuropeptide Y; Aromatic L-aminoacid decarboxylase (Battaglia, A.A. (696) 7)

Midline thalamus; Epinephrine; Cholera toxin subunit B; Phenylethanolamine *N*-methyltransferase; Behavior; Rat (Otake, K. (697) 17)

Bcl-2; Oncogene; Alzheimer's disease; Human brain; Apoptosis; Neurofibrillary tangle; PHF-1; AT8; Cell death (Satou, T. (697) 35)

μ-Calpain; Proteinase; Proenzyme; Calcium; Autodigestion; Neuron; Nucleus (Onizuka, K. (697) 179)

Cyclic ADP-ribose; Second messenger system; Central nervous system; Western blotting; Neuron (Mizuguchi, M. (697) 235)

Retinohypothalamic projection; Suprachiasmatic nucleus; Retinal fiber; Substance P receptor; Rat (Takatsuji, K. (698) 53)

2-Deoxyglucose; Development; Egr-1; Immediate–early gene; Learning; Odor exposure; Olfactory preference; Transcription factor (Johnson, B.A. (699) 192)

Ganglioside; Monoclonal antibody; Rat brain; Cerebellum; Development (Kotani, M. (700) 40)

Vestibular compensation; Neural plasticity; Decompensation; Nystagmus; *N*-Methyl-D-aspartate receptor (Kitahara, T. (700) 182)

Peroxisome; Peroxisomal membrane protein; PMP 22; Zellweger syndrome; Brain development (Miyawaki, T. (700) 285)

Heat shock protein; mRNA; Hybridization, in situ; (±)-2-Amino-3-hydroxy-5-methyl-4-isoxazoleacetic acid; MK-801 (Planas, A.M. (700) 289)

FGF-2; FGFR1; Rat brain; Anatomy; Central nervous system; Hybridization, in situ (Gonzalez, A.M. (701) 201)

AT_2 receptor; Autoradiography; OX-42; ED1; Kainic acid; Gliosis; Hippocampus; Angiotensin (Jöhren, O. (702) 153)

Monodelphis; Gonadectomy; Androgen; Steroid receptor (Iqbal, J. (703) 1)

Neuropeptide; Hypophysiotropic hormone; Brain; Amphibian; Reproduction (Collin, F. (703) 111)

Calretinin; Tract tracing; Retrograde labelling; Calcium binding protein; Nigro-striatal pathway (Krzywkowski, P. (705) 273)

Immunolabelling
Synaptotagmin II; Synaptic vesicle; Quantal release; Lanthanum; α-Latrotoxin; Mouse neuromuscular junction (Angaut-Petit, D. (681) 213)

Immunolesion
Neurotrophin; mRNA expression; Cholinergic basal forebrain neuron (Yu, J. (705) 247)

Immunolocalisation
Second messenger; Pyramidal neuron; Serine/threonine protein phosphatase; Dendrite; Spine (Lowenstein, P.R. (676) 80)

Immunoneutralization
Neuropeptide Y; Hyperphagia; VMH lesion (Dube, M.G. (690) 275)

Immunoreactive dynorphin
Dorsal rhizotomy; Spinal cord; Cerebral area; Deafferentation pain; Deafferentation syndrome; Neuroplasticity; Rat (Candeletti, S. (670) 289)

Immunoreactive endothelin-3
Endothelin; Endothelin ET_A receptor; Endothelin ET_B receptor; Rat retina (De Juan, J.A. (690) 25)

Immunoreactivity
Alcoholism; Alcohol, ethyl; Excitatory amino acid receptor; Receptor, glutamate; Receptor, AMPA; Receptor, kainate; Schizophrenia; Human postmortem tissue; NCAM; Tau; Western blotting (Breese, C.R. (674) 82)

Immunotoxin
192-Saporin; Alzheimer's disease; Cholinergic basal forebrain; Spatial memory; Animal model (Walsh, T.J. (702) 233)

Imprinting
Protein kinase C; PKC; Isoenzyme; IMHV; Double-labeling; Neuron-specific enolase; S100; Glial cell (Van der Zee, E.A. (676) 41)

Inbred mouse
Fos-like immunoreactivity; Dehydration; Polydipsia; Hypothalamus; Circumventricular organ; Water balance (Ueta, Y. (677) 221)

Increased Na^+ conductance
Nitric oxide; Ionic mechanism; Cyclic GMP; *Aplysia* neurons (Sawada, M. (670) 248)

Incubation
Ring dove; 2-Deoxyglucose; Autoradiography; Prolactin (Lea, R.W. (700) 129)

[^{14}C]2-Deoxyglucose; Autoradiography; Ring dove; Nucleus preopticus medialis; Nucleus tuberis; Nucleus ovoidalis; Paleostriatum primitivum (Georgiou, G.C. (700) 137)

Indo-1
Excitotoxicity; Glutamate; *N*-Methyl-D-aspartate; Cell culture; Confocal microscopy (Limbrick Jr., D.D. (690) 145)

Intracellular free calcium; Neurotrophin; Septal culture; Ethanol neurotoxicity; NGF (Webb, B. (701) 61)

Indomethacin
Endothelium; Superoxide dismutase; Hypertension; Cranial window; *N*-Nitro-L-arginine (Riedel, M.W. (671) 21)

Apolipoprotein A-IV; Gastric ulceration; Central nervous system; 2-Deoxy-D-glucose (Okumura, T. (673) 153)

Carrageenan inflammation; Krox-24 expression; Nociception; Spinal cord (Buritova, J. (674) 211)

Atropine; Kainic acid; TRH antibody; Gastric acid secretion (Kaneko, H. (699) 97)

Cerebral blood flow; Hyperglycemia; Mannitol; Laser-Doppler flowmetry; Nitro-L-arginine methyl ester; Spreading cortical depression; Rat (Duckrow, R.B. (703) 145)

Infant
Association cortex; Development; Morphometry; Basal dendrite; Dendritic arborization; Cerebral cortex; Golgi–Cox (Koenderink, M.J.Th. (678) 233)

Infarction
Permanent occlusion of bilateral common carotid artery; Rarefaction; Acetylcholine; Ischemia; Rat (Ni, J.-W. (673) 290)

Infarct size
Brain; Focal ischemia; Dizocilpine maleate; Hyperthermia; Rat (Memezawa, H. (670) 48)

Infarct volume
L-Arginine; Cortical ischemia; Cerebral blood flow; Brain metabolite (He, Z. (699) 208)

Inferior colliculus
γ-Aminobutyric acid; Hamster; Hippocampus; Prion; Scrapie; Immunohistochemistry (Lu, P. (681) 235)

Enkephalin; Neuropeptide Y; Ascending auditory projections; Commissural fiber; Rat (Nakagawa, H. (690) 236)

Cortex; Seizure; 2-Deoxyglucose; c-Fos (McCown, T.J. (701) 117)

Inferior olivary activity
Autospectral analysis; Coherence analysis; Electroencephalogram; Harmaline (Barman, S.M. (671) 345)

Inferior olivary complex
Olivocerebellar pathway; 3-Acetylpyridine; Equilibrium behavior; Learning; Rat (Jones, N. (697) 216)

Inferior olive
Cerebellar nucleus; Red nucleus; Cholera toxin β-subunit; Gold-lectin tracer; Axon collateral (Teune, T.M. (673) 313)

Cholera toxin; Tract tracing; Axonal transport; Climbing fiber (Chen, S. (674) 107)

Angiotensin II; AT_2 receptor; Quantitative autoradiography; CGP 42112; Medial geniculate nucleus; Brain development (Heemskerk, F.M.J. (677) 29)

Volkensin; Ricin; Cerebellum; Pontine nuclei; Retrograde transport; Neuronal degeneration (Cevolani, D. (689) 163)

Inflammation
Visceral; Nociception; Colon; Colorectal distension; Acetic acid (Burton, M.B. (672) 77)

Preprotachykinin-A mRNA; Preprosomatostatin mRNA; Substance P; Somatostatin; Dorsal root

ganglia; Hybridization, in situ; Rat (Hanesch, U. (700) 279)

Inflammation, chronic
Tolerance, opioid; Nociception; Analgesia; Stress-induced analgesia; Tail-flick latency; Complete Freund's adjuvant; Pain, chronic (Gutstein, H.B. (680) 173)

Inflammatory reaction
Spinal cord injury; Methylprednisolone; Lesion site; Secondary injury; Macrophage invation; Central nervous system (Bartholdi, D. (672) 177)

Inhibin
Lateral hypothalamus; Lysine; Amino acid deficient diet; Activin; Follistatin; Operant behavior (Hawkins, R.L. (704) 1)

Inhibition
Whole-cell patch; Slice; Hippocampus; $GABA_A$; Chloride accumulation; Fast inhibitory postsynaptic current; Disinhibition (Ling, D.S.F. (670) 142)

Facilitation; Locomotion; Passive; Cycling (Misiaszek, J.E. (677) 69)

Nucleus magnocellularis; Nucleus laminaris; Medial vestibular nucleus; Brain slice; γ-Aminobutyric acid; Receptor (Hyson, R.L. (677) 117)

Prenatal protein malnutrition; Rapid kindling; Rat; Fully kindled state; Hippocampal formation (Shultz, P.L. (682) 35)

Sympathetic ganglion; Opioid peptide; Opiate receptor; Synapse (Zhang, C. (683) 59)

Excitability; Dentate gyrus; CA1 pyramidal neuron; TPEN (Gordey, M. (691) 125)

Interneurons; Nitric oxide; Long-term potentiation; Limbic cortex (Gabbott, P.L.A. (699) 321)

Exploration; Cerebellum; Spatial orientation; Anxiety (Monnier, C. (702) 169)

Inhibitory avoidance
Amygdala; Lateralization; Lidocaine; Learning; Memory; Retrieval (Coleman-Mesches, K. (670) 75)

Amygdala; γ-Aminobutyric acid; Retrieval; Lateralization; Learning; Memory (Coleman-Mesches, K. (676) 183)

Amygdala; Basolateral complex; Escape training; Learning; Memory; Retention (Parent, M.B. (676) 235)

Protein kinase C; Phorbol ester binding; Hippocampus; Amygdala; Autoradiography (Bernabeu, R. (685) 163)

Inhibitory circuit
Cross-correlation analysis; Neuronal coordination; Species difference; Somatosensory system; Ventrobasal thalamus (Alloway, K.D. (691) 46)

Inhibitory interneuron
Long-term potentiation; Theta-frequency primed burst; Current source density; APV; CA3 (Roth, L.R. (694) 40)

Inhibitory transmission
Hippocampus; Excitatory transmission; Metabotropic glutamate receptor; Presynaptic modulation (Ohno-Shosaku, T. (705) 337)

Initial burst
Primary muscle spindle afferent; Response to a ramp stretch; 'Tuning' properties of the receptor potential (Schäfer, S.S. (686) 61)

Injury
Hypothermia; Microtubule; Varicosity; Cell culture; Transport (Emery, D.G. (692) 161)

Inner ear
Hair cell; Vestibular; Glutamate; Synapse; Turtle (Cochran, S.L. (670) 321)

Neurocalcin; Calcium-binding protein; Rat; Immunohistochemistry (Iino, S. (680) 128)

Inner nuclear layer
Neurotrophin receptor; Retina; Development; Ganglion cell layer; Inner plexiform layer; Hybridization, in situ (Ugolini, G. (704) 121)

Inner plexiform layer
Neurotrophin receptor; Retina; Development; Ganglion cell layer; Inner nuclear layer; Hybridization, in situ (Ugolini, G. (704) 121)

Inositol
Lithium; Cholinergic; Serotonergic; Phosphoinositide; Seizure (Williams, M.B. (685) 169)

Modafinil; Brain metabolism; Excitatory amino acid; Creatine-phosphocreatine; ^{1}H-NMR spectroscopy (Piérard, C. (693) 251)

Inositol(1,3,4,5)P_4
Alzheimer's disease; Inositol(1,4,5)P_3; Calcium; Receptor; Phosphatidylinositol hydrolysis; Signal transduction (Garlind, A. (681) 160)

Inositol(1,4,5)P_3
Alzheimer's disease; Inositol(1,3,4,5)P_4; Calcium; Receptor; Phosphatidylinositol hydrolysis; Signal transduction (Garlind, A. (681) 160)

Inositol 1,4,5-trisphosphate
Neurotensin; Substantia nigra; Dopaminergic neuron; Whole-cell recording; Cationic current; Inwardly rectifying potassium current; G-protein (Wu, T. (683) 242)

Olfactory transduction; Olfactory cilia membrane; Single channel; Rat (Honda, E. (703) 79)

Input resistance
CA1; Eicosanoid; Epilepsy; Excitotoxicity; Hippocampus (Owens Jr, J. (691) 223)

Insect
Cyclic AMP-dependent protein kinase; Chemosensory system; Signal transduction; Brain; *Apis mellifera* (Hildebrandt, H. (679) 281)

Insecticide
Neurotoxicity; Neonatal; Muscarinic acetylcholine receptor; Behaviour; Organophosphate; Diisopropylfluorophosphate (Ahlbom, J. (677) 13)

GABA receptor channel; Lindane; HCH isomer; Chloride current; Dorsal root ganglion (Nagata, K. (704) 85)

Insect motoneurone
Voltage-clamp; Ca-dependent potassium current; Muscarinic agonist outward current. (David, J.A. (669) 153)

Inspiratory neuron
Respiration; Ventral respiratory group; Nucleus retroambigualis; Axonal collateral; Spinal cord; Phrenic nucleus; Brainstem (Sasaki, S.-I. (701) 108)

Insular cortex
Taste; Acetylcholine; Microdialysis; Quinine; Taste aversion; Rat (Shimura, T. (679) 221)

Insulin
Feeding; Peptide; NPY; Glucose; Immediate-early gene (Lambert, P.D. (670) 59)

Microdialysis; Paraventricular nucleus; Ventromedial hypothalamus; Feeding behavior; Satiety (Orosco, M. (671) 149)

Insulin-like growth factor-I
Neuron cell culture; IGF I receptor; Peroxidase anti-peroxidase; Hybridization, in situ; Radioimmunoassay; IGF I internalization (Schechter, R. (670) 1)

N-Methyl-D-aspartate receptor; Retina; Glia; Proliferation (Ikeda, T. (686) 87)

Insulin-like growth factor-II
Insulin-like growth factor binding protein-2; Meninges; Pia mater; Conditioned medium (Ishikawa, K. (697) 122)

Insulin-like growth factor binding protein-2
Insulin-like growth factor-II; Meninges; Pia mater; Conditioned medium (Ishikawa, K. (697) 122)

Interaction
Tyrosine hydroxylase; Intermediate lobe; Neuroendocrinology; Monoamine; Cotransmission (Vanhatalo, S. (669) 275)

Flumazenil; Diazepam; Lorazepam; Hexobarbital anesthesia threshold; Electroencephalographic threshold technique (Korkmaz, S. (676) 371)

Olfactory receptor neuron; Whole cell patch clamp; Olfaction; Mixture; Transduction; Spiny lobster; Crustacean; Binding (Simon, T.W. (678) 213)

Colocalization; Neuroendocrinology; False transmitter; Cotransmission; Superfluous transmitter; Periventriculo-hypophyseal (Vanhatalo, S. (687) 205)

Interdigitation
Cholesterol oxidation; $Ca^{2+} + Mg^{2+}$-ATPase; $Na^+ + K^+$-ATPase; Cholesterol oxidase; Fluidity; Synaptic plasma membrane (Wood, W.G. (683) 36)

Intergeniculate leaflet
Circadian rhythm; Monosodium glutamate; Suprachiasmatic nucleus; Photic stimulation; Constant light; Fos immunocytochemistry (Edelstein, K. (675) 135)

Circadian rhythm; Suprachiasmatic nucleus; Non-photic stimulus; Fos immunoreactivity (Edelstein, K. (690) 254)

Pineal gland; *N*-Acetylserotonin; Deep pineal; Lamina intercalaris; Circadian rhythm (Cipolla-Neto, J. (691) 133)

Activity; c-*fos*; Hamster; Immunocytochemistry; Neuropeptide Y; Nonphotic; Rhythm; Suprachiasmatic nucleus (Janik, D. (698) 137)

Suprachiasmatic nucleus; Subparaventricular zone; Paraventricular hypothalamic nucleus; Paraventricular thalamic nucleus; Retrochiasmatic area; γ-Aminobutyric acid; Benzodiazepine receptor (Gao, B. (700) 142)

Interhemispheric
Corpus callosum; Immunocytochemistry; Retrograde tracing; Cholera toxin B; Double labeling (Gonchar, Y.A. (697) 27)

Interhemispheric correlation
Sex difference; EEG; Testosterone; Prenatal treatment; Spectral power (Juárez, J. (694) 21)

Interictal
Metabotropic glutamate receptor; MCPG; Epilepsy; 4-Aminopyridine; Amygdala; Ictal; mGluR (Arvanov, V.L. (669) 140)

Interleukin-1
Brain injury; Fluid percussion trauma; Interleukin-1 receptor antagonist (Toulmond, S. (671) 261)

Interleukin-6; Differentiation; Fura-2; Glutamate; Caffeine; Depolarization; Brain (Holliday, J. (673) 141)

Interleukin-1 receptor antagonist; Social behavior; Body weight; Rat (Bluthé, R.-M. (677) 171)

Interleukin-1 receptor antagonist; Intracerebroventricular; Rat; Stress; Escape; Fear; Learned helplessness (Maier, S.F. (695) 279)

Interleukin-1β
Organum vasculosum laminae terminalis; Febrile tolerance (Nakamori, T. (675) 103)

Serotonin; Intracellular calcium; Tyrosine kinase; Protein kinase C; C6BU-1 glioma (Kugaya, A. (682) 151)

Anterior hypothalamic area; Paraventricular nucleus; Push-pull perfusion (Phelps, C.P. (688) 193)

Vagotomy; Rat; Tumor necrosis factor-α; Hyperalgesia; Pain facilitation; Interleukin-1 receptor antagonist; Formalin (Watkins, L.R. (692) 244)

Preoptic area; Ventromedial hypothalamus; Hyperalgesia; Analgesia; Diagonal band of Broca; Prostaglandin; α-Melanocyte stimulating hormone; Pain (Oka, T. (700) 271)

Corticosterone; Adrenalectomy; RU38486; Social behaviour; Body temperature; Mouse (Goujon, E. (702) 173)

Interleukin-1 receptor antagonist
Brain injury; Fluid percussion trauma; Interleukin-1 (Toulmond, S. (671) 261)

Interleukin-1; Social behavior; Body weight; Rat (Bluthé, R.-M. (677) 171)

Vagotomy; Rat; Tumor necrosis factor-α; Hyperalgesia; Pain facilitation; Interleukin-1β; Formalin (Watkins, L.R. (692) 244)

Interleukin-1; Intracerebroventricular; Rat; Stress; Escape; Fear; Learned helplessness (Maier, S.F. (695) 279)

Interleukin-6
Interleukin-1; Differentiation; Fura-2; Glutamate; Caffeine; Depolarization; Brain (Holliday, J. (673) 141)

Hyperalgesia; α-Melanocyte-stimulating hormone; Prostaglandin; Pain; Central nervous system (Oka, T. (692) 123)

Intermediate and medial hyperstriatum ventrale
Domestic chick; Lobus parolfactorius; *N*-Methyl-D-aspartate receptor; Learning and memory (Steele, R.J. (674) 352)

Intermediate filament
Astrocyte; Auditory brainstem nucleus; Aging; Immunohistochemistry (Jalenques, I. (686) 223)

Intermediate filament proteins
Diisopropyl phosphorofluoridate; Hen; Cytoskeletal pro CANP; OPIDN (Gupta, R.P. (677) 162)

Intermediate lobe
Tyrosine hydroxylase; Neuroendocrinology; Interaction; Monoamine; Cotransmission (Vanhatalo, S. (669) 275)

Intermediolateral cell column
Somatic; Autonomic; Dorsal root ganglia; Renin–angiotensin system (Moeller, I. (701) 301)

Internal capsule
Microdialysis; Substantia nigra; γ-Aminobutyric acid; Electrical stimulation (Biggs, C.S. (684) 172)

Internalization
Muscarinic receptor; Medial septum; Hippocampus; Sympathetic ingrowth; Lesion; Plasticity (Ayyagari, V. (676) 394)

Interneuron
Desensitization; Tolerance; Dentate gyrus; Opioid; Mu receptor; [D-Ala^2,NMe-Phe^4,Gly-ol]-Enkephalin; DAMGO (Mayer, J.H. (686) 134)

Cortical circuitry; Microcolumn; Symmetric synapse (Del Río, M.R. (690) 133)

γ-Aminobutyric acid; Calretinin; Double bouquet cell; Temporal cortex; Calcium-binding protein; Alzheimer's disease (Fonseca, M. (691) 83)

Inhibition; Nitric oxide; Long-term potentiation; Limbic cortex (Gabbott, P.L.A. (699) 321)

Sodium current; Olfactory bulb slice; Patch-clamp (Bardoni, R. (703) 19)

Internucleosomal cleavage
Apoptosis; Hypoxia-ischemia; Neonatal; DNA damage; Cell death (Hill, I.E. (676) 398)

Interpeduncular nucleus
Cytokine; Triangular septal nucleus; Septofimbrial nucleus; Habenular nucleus; Autoradiography; Blood–brain barrier; Capillary; Choroid plexus (Maness, L.M. (700) 83)

Interscapular brown adipose tissue
Wake–sleep cycle; Cyclic AMP; Anteroventro-medial hypothalamus; Cerebral cortex; Pineal gland; Low ambient temperature (Perez, E. (684) 56)

Interstitial neuron
Subplate neuron; Somatostatin; Neuropeptide Y; Substance P; Cholecystokinin (Ang, L.-C. (674) 329)

Interstitial space
Osmotic effect; Cell volume; Tissue resistance; Hypertonia; Spreading depression; Synaptic transmission; Water deprivation (Huang, R. (702) 181)

Intestinal anaphylaxis
c-fos; Paraventricular nucleus; Lateral parabrachial nucleus; Nucleus of the solitary tract; 5-HT_3 receptors; Vagus nerve (Castex, N. (688) 149)

Intracellular
Brain slice; Serotonin; 8-OH-DPAT; Bicuculline; Epileptiform; Hippocampus (Salgado, D. (669) 176)

Neuromodulation; Somatosensory cortex; Norepinephrine; γ-Aminobutyric acid (Sessler, F.M. (675) 171)

Intracellular Ca^{2+}
$AVP_{(4-9)}$; $AVP_{(4-8)}$; Fragment peptide; Receptor autoradiography; Cell culture; Immunocytochemistry; Fura-2 (Jurzak, M. (673) 349)

Medicinal leech; Glial cell; Retzius neurone; Extracellular K^+; Ca^{2+} channel; Menthol (Hochstrate, P. (696) 231)

ω-Conotoxin GVIA; ω-Agatoxin IVA; ω-Conotoxin MVIIC; Voltage-sensitive calcium channels; Hippocampal synaptosomes (Malva, J.O. (696) 242)

Intracellular Ca^{2+} concentration
Zinc; ATP; Dopamine release; ATP-activated current; PC12 cells (Koizumi, S. (673) 75)

Intracellular Ca^{2+} store
Caffeine; Dissociated outer hair cell; Guinea-pig cochlea; K^+ current; Whole-cell recording (Yamamoto, T. (677) 89)

Cyclopiazonic acid; Ca^{2+} entry blocker; Calmodulin antagonist; NG108-15; Capacitative Ca^{2+} entry (Lo, T.-M. (704) 10)

Intracellular calcium
Glutamate toxicity; Lactate dehydrogenase; Neuronal culture; σ-Mediated neuroprotection; Neuronal morphology (DeCoster, M.A. (671) 45)

Ethanol; Central nervous system neuron; Fura-2; Glutamate receptor; Neuronal development; Granule neuron (Gruol, D.L. (673) 1)

Intracellular pH; BCECF; Fura-2; Glutamate; Cortical neuron (OuYang, Y.-B. (676) 307)

Interleukin-1β; Serotonin; Tyrosine kinase; Protein kinase C; C6BU-1 glioma (Kugaya, A. (682) 151)

Hippocampal slice; Hypoxia; Glucose deprivation; Intracellular recording; ATP; Lactate (Takata, T. (683) 109)

Opiate; Fura-2; $^{45}Ca^{2+}$ uptake; Neuronal cell line (Fields, A. (687) 94)

Glutamate; Neuronal culture; Neuroprotection; Sigma ligand; Confocal microscopy (Klette, K.L. (704) 31)

Intracellular free calcium
Neurotrophin; Septal culture; Indo-1; Ethanol neurotoxicity; NGF (Webb, B. (701) 61)

Intracellular pH
Intracellular calcium; BCECF; Fura-2; Glutamate; Cortical neuron (OuYang, Y.-B. (676) 307)

Intracellular potassium
Carotid body; Glomus cell; Hypoxia (Zhang, X.-Q. (676) 413)

Intracellular recording
Pyramidal cell; Postsynaptic potential; Directional tuning; Electrically evoked response (Lohmann, H. (671) 275)

Hippocampal slice; Hypoxia; Glucose deprivation; ATP; Intracellular calcium; Lactate (Takata, T. (683) 109)

Hydrogen peroxide; Hippocampus; CA1; K^+ channel; Free radical (Seutin, V. (683) 275)

Acetylcholine; Muscarine; Atropine; slow EPSP; Alcohol; Electrophysiology; Eserine (Madamba, S.G. (685) 21)

Sympathetic preganglionic neuron; Oxytocin receptor; Spinal cord; Slice; In vitro; Autonomic nervous system; Biocytin (Desaulles, E. (699) 139)

Intracerebral hemorrhage
Angiogenesis; Basic fibroblast growth factor; Hippocampus; Intracerebral mass lesion; Ischemia; Protective effect; Rat (Kawakami, N. (697) 104)

Intracerebral mass lesion
Angiogenesis; Basic fibroblast growth factor; Hippocampus; Intracerebral hemorrhage; Ischemia; Protective effect; Rat (Kawakami, N. (697) 104)

Intracerebral microdialysis
5-Hydroxytryptamine; Amygdalopiriform cortex; 5-HT_{1B} receptors; Epilepsy (Kikvadze, I. (692) 111)

Intracerebroventricular
Mean arterial pressure; Heart rate; Pirenzepine; 4-DAMP; Methoctramine; Atropine; Anesthesia (Ally, A. (677) 268)

Sleep function; Sleep homeostasis; Sleep deprivation; Potassium transport (Benington, J.H. (692) 86)

Interleukin-1; Interleukin-1 receptor antagonist; Rat; Stress; Escape; Fear; Learned helplessness (Maier, S.F. (695) 279)

Pituitary adenylate cyclase-activating polypeptide; Vasoactive intestinal polypeptide; Thyrotropin-releasing hormone; Spontaneous motor activity; Rearing behavior; Reserpine; Hypothermia (Masuo, Y. (700) 219)

Intracerebroventricular infusion
Metabolic rate; Bird; Brain; Acute cold exposure (Montaron, A. (702) 49)

Intracerebroventricular injection
Neuropeptide Y-(13–36); Neuropeptide Y receptor; PYY binding; Spontaneously hypertensive rat; Nucleus tractus solitarius; Autoradiography; Blood pressure; Rat brain (Aguirre, J.A. (684) 159)

Intracortical inhibition
γ-Aminobutyric acid; Somatostatin; Visual deprivation; Visual cortex (Benevento, L.A. (689) 172)

Intracortical microstimulation
Superior colliculus; Primary motor cortex; Frontal eye field; Orofacial movement; Anterograde axonal tracing; Monkey (Tokuno, H. (703) 217)

Intracraneal temperature
Microinjection; Dopamine; Lateral hypothalamus; Sulpiride; Dopamine D2 receptor; Brain self-stimulation; Neuroleptic malignant syndrome (Parada, M.A. (674) 117)

Intracranial stimulation
Cholecystokinin; Copulation; Dopamine; Nucleus accumbens; Sexual behavior; Ventral tegmental area (Markowski, V.P. (699) 266)

Intralaminar thalamic nucleus
Thalamus; Reticular thalamic nucleus; Thalamic commissural projection; Parafascicular thalamic nucleus; Retrograde cell labeling; Multiunit anterograde labeling (Hazrati, L.-N. (679) 123)

Intraluminal thread
Focal cerebral ischemia; Strain differences; Rat; Filament (Oliff, H.S. (675) 20)

Intranasal
Olfactory bulb; Protein transport; Drug delivery; Alzheimer's disease (Thorne, R.G. (692) 278)

Intraocular transplant
Serotonin; Neuropeptide Y; Suprachiasmatic nucleus (Ueda, S. (673) 325)

Intrinsic optical properties
Cell swelling; Imaging; Spectrophotometry; Brain slice; Rat (Kreisman, N.R. (693) 179)

Invertebrate neuropeptide
Neurotransmitter release; FMRFamide-related peptide (Noronha, K.F. (673) 70)

In vitro
Lizard; *Christinus marmoratus*; Melatonin; Pineal organ; Circadian rhythm (Moyer, R.W. (675) 345)

Acetylcholine; D_1-Dopamine agonist; Glutamate; Reserpine; Supersensitivity; Striatum (Login, I.S. (681) 209)

Cortex; Brainstem; Hypoxia; Anoxia; Electrophysiology; Brain slice (O'Reilly, J.P. (683) 179)

Nitric oxide; Long-term potentiation; Medial amygdala; Lateral amygdala (Watanabe, Y. (688) 233)

Sympathetic preganglionic neuron; Oxytocin receptor; Spinal cord; Slice; Autonomic nervous system; Intracellular recording; Biocytin (Desaulles, E. (699) 139)

In vivo
Antibody microprobe; Dopamine; Neurokinin A; Rat brain; Release; Substantia nigra (Furmidge, L.J. (679) 241)

Hippocampus; Dentate gyrus; Feedback inhibition; Feedforward inhibition (Burdette, L.J. (680) 53)

Hippocampus; Dentate gyrus; Paired pulse inhibition (Burdette, L.J. (680) 63)

NBQX; Selective AMPA receptor antagonist; Field potential; Long-term potentiation (Sato, K. (683) 279)

Brain imaging; Free radical; Electron spin resonance computer tomography (Hiramatsu, M. (697) 44)

Inwardly rectifying potassium current
Neurotensin; Substantia nigra; Dopaminergic neuron; Whole-cell recording; Cationic current; G-protein; Inositol 1,4,5-trisphosphate (Wu, T. (683) 242)

Inward rectifier
Potassium current; Horizontal cell; Voltage-clamp; Sodium dependency; Retina (Pfeiffer-Linn, C.L. (701) 81)

Ion channel
Osmotic effect; Glutamate; γ-Aminobutyric acid; Whole-cell patch-clamp; Dissociated neuron; Cell volume (Vreugdenhil, M. (670) 89)

ATP; P_{2Y} purinoceptor; Dopamine; Striatum; Microdialysis (Zhang, Y.-X. (691) 205)

Patch clamp; Tetrodotoxin; Glomus; Chemoreceptor; Acclimatization; Oxygen (Hempleman, S.C. (699) 42)

Ion exchange chromatography
[^{3}H]Triamcinolone acetonide; Glucocorticoid receptor; Sodium molybdate; Leupeptin; Heterogeneity (Yoneda, Y. (685) 105)

Ionic flux
Concussion; Lactate; Excitatory amino acid; Glucose metabolism; Microdialysis; Glycolysis (Kawamata, T. (674) 196)

Ionic mechanism
Nitric oxide; Increased Na^+ conductance; Cyclic GMP; *Aplysia* neurons (Sawada, M. (670) 248)

Iontophoresis
Genetic epilepsy; Neuron sensitivity; $GABA_A$ receptor; Muscimol; Flunitrazepam; Purkinje neuron; Baclofen; Ligand binding (Gould, E.M. (698) 62)

Ion transport
Glucose; Lactate; Hippocampus; Anoxia; Hypoxia; Synaptic transmission; Brain slice (Roberts, Jr., E.L. (678) 83)

IP_3 receptor
Ryanodine receptor; Sphingosylphosphorylcholine; Calcium release; Microsome (Dettbarn, C. (669) 79)

Ipsilateral
Retina; Ganglion cell; Ventral lateral geniculate; Posterior lateral nucleus; Retrograde double-labeling; Fluorescent tracer; Rat (Farid Ahmed, A.K.M. (674) 275)

Basal ganglia; Putamen; Caudate nucleus; Globus pallidus; Primate; Single neuron; Motor control; Movement; Movement direction; Precue (Jaeger, D. (694) 111)

Ipsilateral rotation
Unilateral nigrostriatal lesion; Rat; Striatum; Dopamine contents; 6-Hydroxydopamine (Matsuda, H. (686) 111)

IRL 1620, N-Suc-(Glu^9,Ala^{11,15})ET-1(8-21)
Endothelin-1; BQ-123, Cyclo (-D-Trp-D-Asp-Pro-D-Val-Leu-); Regional vascular resistance; Regional blood flow; Systemic hemodynamics; Sprague–Dawley rat; Central nervous system (Rebello, S. (676) 141)

Iron
Bilirubin; Cyclic GMP; Cytochrome P_{450}-reductase; Heme oxygenase; Protoporphyrin (Laitinen, J.T. (694) 246)

Epilepsy; Seizure threshold; Rat; Hemoglobin; Amygdala (Löscher, W. (697) 197)

Iron toxicity
21-Aminosteroid; 2-Methylaminochroman; Cyanide; Primary neuronal culture; Dizocilpine; Neuroprotection (Müller, U. (678) 265)

Iron uptake
Ferrotransferrin receptor; Autoradiography; Parkinson's disease; Human; MPTP (Faucheux, B.A. (691) 115)

Ischaemia
Retina; γ-Aminobutyric acid; Müller cell; Immunocytochemistry (Barnett, N.L. (677) 337)

Ischemia
Cytoplasmic dynein; Kinesin; Microtubule-associated protein; Microtubule-based motor; Mitochondrion (Aoki, M. (669) 189)

Sigma receptor; Hippocampus; Presynaptic potential; Neuroprotection (Shibata, S. (670) 337)

Long-term potentiation; Dopamine release; Striatum; Glutamate (Inoue, H. (671) 95)

Hydrogen peroxide; Microdialysis; Striatum (Hyslop, P.A. (671) 181)

Pentobarbital; Acetylcholine; Brain dialysis; Choline acetyltransferase; Delayed neuronal death; Hippocampus; Gerbil (Ishimaru, H. (673) 112)

Permanent occlusion of bilateral common carotid artery; Infarction; Rarefaction; Acetylcholine; Rat (Ni, J.-W. (673) 290)

Glutamate; Glycine; *N*-Methyl-D-aspartate receptor; Glycine site; Organotypic hippocampal cultures; Acea 1021; 7-Chlorokynurenic acid; MK-801 (Newell, D.W. (675) 38)

Cardiac arrest; Neuroprotection; Thalamic reticular nucleus; α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionate antagonist (Ross, D.T. (683) 117)

Mimic RT-PCR; HSP72; HSC73; Rat (Abe, K. (683) 251)

Fodrin; MAP 2; Calpain; Neonatal; Brain damage; Hypoxia (Blomgren, K. (684) 136)

Calpain; Fodrin; Neonatal; Brain damage; Hypoxia (Blomgren, K. (684) 143)

Cerebral pO_2; EPR oximetry; Lithium phthalocyanine; Anesthesia (Liu, K.J. (685) 91)

Seizure; Remission; Relapse; Cardiac arrest; Valproate (Iyer, V.G. (689) 159)

Depolarization; Neurofilament protein; Potassium; Cytoskeleton; Trauma; Epilepsy (Whitson, J.S. (694) 213)

Angiogenesis; Basic fibroblast growth factor; Hippocampus; Intracerebral hemorrhage; Intracerebral mass lesion; Protective effect; Rat (Kawakami, N. (697) 104)

Free radical; Myelination; O2A lineage; Reactive oxygen species; White matter (Husain, J. (698) 86)

Cardiac arrest; Cerebellar degeneration; Neuroprotection; AMPA antagonist (Brasko, J. (699) 133)

Temperature; Spatial navigation; *N*-Methyl-D-aspartate antagonist; Behavior (Green, E.J. (702) 145)

Arteriovenous; Brain slice; Electrophysiology; Hippocampus; Hypoglycemia; Hypoxia; Steal (Sekhon, L.H.S. (704) 107)

Parkinson's disease; Epidermal growth factor; Basic fibroblast growth factor; Glia; Neurotrophin; Neuronal survival; MPP^+ (Akaneya, Y. (704) 175)

Ascorbic acid; Free radical; Glutathione; Turtle; Rat; Temperature; Metabolism (Pérez-Pinzón, M.A. (705) 45)

Ischemia, in vitro
Hippocampus; MAP-2; Tubulin; Heat shock protein (Raley-Susman, K.M. (694) 94)

Ischemia model
Lucigenin; Reoxygenation; Brain development; Scavenger (Schreiber, S.J. (703) 227)

Ischemic brain injury
Traumatic brain injury; Glutamate receptor; Neuronal death (Regan, R.F. (705) 188)

Ischemic tolerance
Cerebral ischemia; Microglia; Macrophage; Immunohistochemistry; Hippocampus; Rat (Kato, H. (694) 85)

Ischiocavernosus
Levator ani; Bulbocavernosus; Steroid; Testosterone (Freeman, L.M. (690) 1)

Isoenzyme
Protein kinase C; PKC; IMHV; Imprinting; Double-labeling; Neuron-specific enolase; S100; Glial cell (Van der Zee, E.A. (676) 41)

Isoflurane
Thiopental; Halothane; Synaptosome; γ-Aminobutyric acid release; Depolarization; Calcium channel (Lecharny, J.-B. (670) 308)

General anesthetic; MAC; Nociceptive modulation; Pain; Raphe magnus (Leung, C.G. (699) 71)

Isolated brainstem
Control of breathing; Acetylcholine; 3-Bromopyruvate; Hydroxycitrate; Citrate; Triethylcholine; Atropine (Burton, M.D. (670) 39)

Isoproterenol
Adrenergic receptor; Norepinephrine; Adenosine; Astrocyte; Cyclic AMP transport; Cerebral cortex; Cyclic AMP; Phosphodiesterase; Astrocyte; Secretion; Transport (Rosenberg, P.A. (692) 227)

Adrenergic receptor; Cardiac adenylyl cyclase; Heart; β-Adrenoceptor signaling; Heterologous sensitization/desensitization of adenylyl cyclase; Development (Giannuzzi, C.E. (694) 271)

Atrial volume receptor; Water intake; Lateral parabrachial nucleus; Rat (Ohman, L.E. (695) 275)

Isotonic contraction
Fusimotor neuron; Muscle fatigue (Ljubisavljević, M. (673) 126)

Itch
Behavior; Brainstem; Opioid; Rat; Scratching; Trigeminal nucleus (Thomas, D.A. (695) 267)

I-wave
Undernutrition; Myelin; Pyramidal tract; Spinal cord; D-wave; Development (Quirk, G.J. (670) 277)

J

Japanese quail
Pregnenolone; Neurosteroid; Steroidogenesis; Brain (Tsutsui, K. (678) 1)

Cytochrome P450scc; Localization; Immunohistochemistry; Immunoblotting; Brain (Usui, M. (678) 10)

Sexual behavior; Aromatase control; Aromatase synthesis; Preoptic area; *Coturnix japonica*; Reproduction (Foidart, A. (701) 267)

Jimpy
Anisotropy; Diffusion; Histology; Magnetic Resonance Imaging; Myelination (Ono, J. (671) 141)

Joint
Spinal; Ia; II; Locomotion; Stretch; Human (Cheng, J. (672) 89)

Jun-B
c-fos; c-jun; Estradiol; Fos; Jun-D; Lordosis; Progesterone; Sexual behavior (Flanagan-Cato, L.M. (673) 53)

Jun-D
c-fos; c-jun; Estradiol; Fos; Jun-B; Lordosis; Progesterone; Sexual behavior (Flanagan-Cato, L.M. (673) 53)

K

Kainate
Brain stimulation; Aversion; Defense; $GABA_A$ antagonist; *c-fos* Proto-oncogene; Medial hypothalamus; Limbic system (Silveira, M.C.L. (674) 265)

Sigma site; *N*-Methyl-D-aspartate; Neurotoxicity; Hypoxia; Kappa opioid (Lockhart, B.P. (675) 110)

Glutamate; AMPA; Cell culture; Excitotoxicity; Spinal cord; Neurotoxicity; Ca^{2+}; Calcium (Yin, H.-z. (689) 265)

Dopamine-release; Cadmium; Striatum; *N*-Methyl-D-aspartate; Amperometry, in vivo; Superfusion, in vivo; Rat (Olivier, V. (695) 1)

Kainate receptor
Excitotoxin; Limbic system; Subiculum; Papez circuit; Silver staining; *Macaca fascicularis* (Schmued, L.C. (695) 64)

Glutamate neurotoxicity; ATP content; *N*-Methyl-D-aspartate receptor; Energetic stress (Marcaida, G. (695) 146)

Nucleus basalis; Glutamate receptor subtype; *N*-Methyl-D-aspartate receptor; AMPA receptor; Autoradiography; γ-Aminobutyric acid receptor; Benzodiazepine receptor; Image analysis (Roßner, S. (696) 165)

Kainic acid
Glutamate; Hippocampus; Microdialysis; Nitric oxide; Rat; Seizure (Rigaud-Monnet, A.-S. (673) 297)

Nitric oxide; Seizure; Pilocarpine; *N*-Methyl-D-aspartate receptor; Nitro-L-arginine (Maggio, R. (679) 184)

CREB; c-fos; c-*jun*; Krox-24; Seizure; Hippocampus (Blendy, J.A. (681) 8)

Connexin-43; Astrocyte; Gap junction; Immunohistochemistry; *N*-Methyl-D-aspartate; Transblot, in situ (Sawchuk, M.A. (683) 153)

Recombinant human glial derived neurotrophic factor; rhGDNF; Epilepsy; Seizure; Hippocampus (Martin, D. (683) 172)

Thyroid hormone; Enkephalin mRNA; Dynorphin mRNA; Hippocampus; Hybridization, in situ; Rat (Giardino, L. (687) 83)

Rat; Olfaction; Dentate gyrus; Hippocampus; Fast wave; Evoked potential; Colchicine (Heale, V.R. (690) 157)

Olfactory bulb; Seizure; Propagation; Cerebral glucose utilization; Electroencephalogram (Araki, T. (693) 207)

Atipamezole; Dexmedetomidine; Epilepsy; Hippocampus; Neuronal damage; Status epilepticus (Halonen, T. (693) 217)

Cerebellar nucleus; Cerebellum; Dystonia; Stereotactic (LeDoux, M.S. (697) 91)

Atropine; Indomethacin; TRH antibody; Gastric acid secretion (Kaneko, H. (699) 97)

Acromelic acid; AMPA; Excitatory amino acid; Glutamate receptor; Neurotoxicity; Spastic paraplegia; Spinal cord (Kwak, S. (702) 61)

AT_2 receptor; Autoradiography; OX-42; ED1; Immunohistochemistry; Gliosis; Hippocampus; Angiotensin (Jöhren, O. (702) 153)

Corticosterone; Hippocampus; Epileptic activity; RU486; GR-receptor (Talmi, M. (704) 97)

Breathing control; Fastigial nucleus; Vermis; Respiratory neuron; Phrenic neurogram; Electrical stimulation (Xu, F. (705) 53)

Kallikrein
Kallikrein-kinin system; Kinin antagonist; Central nervous system; Blood pressure; Rat brain; Brainstem (Privitera, P.J. (704) 103)

Kallikrein-kinin system
Kallikrein; Kinin antagonist; Central nervous system; Blood pressure; Rat brain; Brainstem (Privitera, P.J. (704) 103)

Kappa-opioid
Mu-opioid; Delta-opioid; DAMGO; U-50,488H; DPDPE; Amphetamine; VTA; Mesoaccumbens dopaminergic system; Feeding; Drinking; Hyperdipsia; Gnawing; Activity; VTA (Badiani, A. (670) 264)

Kappa opioid
Sigma site; *N*-Methyl-D-aspartate; Kainate; Neurotoxicity; Hypoxia (Lockhart, B.P. (675) 110)

U50,488; Spiradoline; Nor-binaltorphimine; Morphine; Cocaine; Drug self-administration (Glick, S.D. (681) 147)

Glutamate transmission; Output regions of the basal ganglia; Parkinson's disease (Maneuf, Y.P. (683) 102)

Kappa receptor
Opioid; Feeding; Dietary obesity; Mu receptor; Delta receptor; Rat (Cole, J.L. (678) 168)

K^+ channel
Hydrogen peroxide; Hippocampus; CA1; Intracellular recording; Free radical (Seutin, V. (683) 275)

K^+ channel blocker
Regulatory volume decrease; Cl^- channel blocker; Ouabain; Bumetanide; Stretch-activated channel blocker; Cytosolic Ca^{2+} (Lippmann, B.J. (686) 29)

K^+ concentration
Glial cell; Depolarization; Population spike; Schaffer collateral; Synaptic transmission (Leung, L.-C. (697) 262)

K^+ Conductance
Opioid; μ Receptor agonist; δ Receptor agonist; κ Receptor agonist; Cholera toxin; Dorsal root ganglion neuron; Neuroblastoma F11 cell; Pertussis toxin (Fan, S.-f. (696) 97)

K^+ current
Caffeine; Dissociated outer hair cell; Guinea-pig cochlea; Whole-cell recording; Intracellular Ca^{2+} store (Yamamoto, T. (677) 89)

KCl depolarization
Striatal synaptosome; Dopamine release; $[Ca^{2+}]_i$; 4-Aminopyridine; Ca^{2+} channel (Carvalho, C.M. (669) 234)

Ketamine
Flexion reflex; *N*-methyl-D-aspartate receptor; MK-801; C-afferent; Capsaicin (Anderson, M.F. (678) 140)

Heat shock; Phencyclidine; DNQX; Excitotoxicity; AMPA receptor; Cortex; Rat (Sharp, J.W. (687) 114)

Spreading depression; Cerebral cortex; AP5; *N*-Methyl-D-aspartate receptor; MK-801 (Rashidy-Pour, A. (693) 64)

Valproic acid; Epilepsy; Anticonvulsant action; γ-Aminobutyric acid; Chloral hydrate; Fentanyl; Opioid (Löscher, W. (702) 133)

Ketanserin
Muscle rigidity; Dexmedetomidine; Methylnaloxonium; α Adrenergic receptor; Alfentanil; Electromyography; ST91 (Weinger, M.B. (669) 10)

Fos; Stress; Noradrenergic system; Prazosin; Betaxolol; ICI118551; Fluphenazine; WAY 100135 (Stone, E.A. (694) 279)

Kinase inhibitor
Chelerythrine; Taurine; Retina; Protein phosphorylation (Lombardini, J.B. (673) 194)

Kindled seizure stage
Amygdala kindling; Anteromedial cortex lesion; Somatosensory asymmetry; Recovery of function; Neurological model (Hernandez, T.D. (673) 208)

Kindling
Spontaneous seizure; Epilepsy; Perforant path; Dentate gyrus; Amygdala (Milgram, N.W. (670) 112)

Amygdala; Epileptogenesis; Immunohistochemistry; Rat (Ebert, U. (671) 338)

Epilepsy; Amygdala; Piriform cortex; Perirhinal cortex; Guinea-pig; Reserpine; Picrotoxin (Teskey, G.C. (672) 137)

α_1-Adrenergic receptor; α_{1A} and α_{1B} subtype; Noradrenaline; Cerebral cortex; Autoradiography; Seizure; Epilepsy (Gundlach, A.L. (672) 214)

Thyrotropin releasing hormone; Pyroglutamyl peptidase II; Ectopeptidase; Neuropeptide (De Gortari, P. (679) 144)

Protein kinase C; Epilepsy; Neuronal plasticity; Amygdala, Hippocampus (Akiyama, K. (679) 212)

Seizure; Epilepsy; Brainstem; Amygdaloid body; Rat (Chiba, S. (682) 50)

Nitric oxide; N^{ω}-Nitro-L-arginine methyl ester; Pentylenetetrazol; Epilepsy; Glutamate binding; Rat (Becker, A. (688) 230)

Hippocampal granule cell; Amygdala; Sprague-Dawley rat; Wistar rat; Colchicine (Tsunoda, K. (691) 18)

Presynaptic glutamate receptor; Glutamate release; Epileptogenesis; Seizures; (1S,3S)-ACPD; D-CPPene; D-CPP (Attwell, P.J.E. (698) 155)

Bicuculline methiodide; Social interaction; Conflict; Long-term potentiation (Sanders, S.K. (699) 250)

Long-term potentiation; Kindling-induced potentiation; Plasticity; Memory; Neocortex; Corpus callosum (Racine, R.J. (702) 77)

PKC; Epilepsy; Hybridization, in situ; Gene expression; mRNA; Plasticity (Kamphuis, W. (702) 94)

Kindling-induced potentiation
Kindling; Long-term potentiation; Plasticity; Memory; Neocortex; Corpus callosum (Racine, R.J. (702) 77)

Kinesin
Cytoplasmic dynein; Ischemia; Microtubule-associated protein; Microtubule-based motor; Mitochondrion (Aoki, M. (669) 189)

Kinin antagonist
Kallikrein-kinin system; Kallikrein; Central nervous system; Blood pressure; Rat brain; Brainstem (Privitera, P.J. (704) 103)

Kininase II inhibitor
Angiotensin II; Losartan; Paraventricular hypothalamus; Supraoptic nucleus; Lamina terminalis; Enalapril; Captopril; Bradykinin antagonist (Hoe 140) (Rowland, N.E. (669) 73)

Knock-out mice
Nitric oxide synthase; NADPH-diaphorase; Retina; Electron microscopy; BSPT-formazan; Membrane (Darius, S. (690) 231)

Krox-24
CREB; c-fos; c-*jun*; Kainic acid; Seizure; Hippocampus (Blendy, J.A. (681) 8)

Krox-24 expression
Carrageenan inflammation; Indomethacin; Nociception; Spinal cord (Buritova, J. (674) 211)

Kupffer cell
Morphine; Opioid; Macrophage; Brain cell culture; Microglia; Astrocyte; C6 glioma (Dobrenis, K. (686) 239)

Kynurenate
MAP2; Head injury; Cytoskeleton; Fluid-percussion; Neuropathology (Hicks, R.R. (678) 151)

6-Cyano-7-nitroquinoxaline-2,3-dione; 2,3-Dihydroxy-6-nitro-7-sulfamoylbenzo(f)quinoxaline; Brain slice; Lateral olfactory tract; Excitatory amino acid (Yang, Q.Z. (680) 207)

Trigeminal; Diving reflex; Cardiovascular; Respiration; Glutamate; Lidocaine; Nasal; Medullary dorsal horn; Diving response; Muskrat (Panneton, W.M. (691) 37)

Kynurenic acid
Slow depolarizing after-potential; Epileptiform activity; Seizure-like activity; Cocaine; Tetrodotoxin; Veratridine (Tian, L.-M. (680) 164)

Medulla; Cat; Lateral tegmental field; Sympathoinhibition; α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; Baroreflex (Dempesy, C.W. (704) 141)

L

Labyrinthectomy
Guinea pig; S100 protein; Vestibular system; Vestibular compensation; Plasticity (Rickmann, M. (688) 8)

Lactate
^{1}H-magnetic resonance spectroscopy; Basal ganglia; Motor task; Brain function (Kuwabara, T. (670) 326)

Concussion; Ionic flux; Excitatory amino acid; Glucose metabolism; Microdialysis; Glycolysis (Kawamata, T. (674) 196)

Glucose; Hippocampus; Anoxia; Hypoxia; Ion transport; Synaptic transmission; Brain slice (Roberts, Jr., E.L. (678) 83)

Hippocampal slice; Hypoxia; Glucose deprivation; Intracellular recording; ATP; Intracellular calcium (Takata, T. (683) 109)

Lactate dehydrogenase
Glutamate toxicity; Neuronal culture; σ-Mediated neuroprotection; Intracellular calcium; Neuronal morphology (DeCoster, M.A. (671) 45)

Lactation
Oxytocin; Prolactin; Vasopressin; Hypothalamus; Posterior pituitary (Ghosh, R. (672) 24)

Arginine-vasopressin; Quantitative autoradiography; Ventrolateral hypothalamus; Dorsomedial hypothalamic nucleus; Suprachiasmatic nucleus (Delville, Y. (689) 147)

Closed head injury; Fos immunohistochemistry; *N*-Methyl-D-aspartate receptor; Rat (Woodside, B. (690) 48)

Lamina I
Substantia gelatinosa; Dorsal horn; Electron microscopy; Double labelling; Immunocytochemistry; Immunogold (Ma, W. (692) 99)

Lamina intercalaris
Intergeniculate leaflet; Pineal gland; *N*-Acetylserotonin; Deep pineal; Circadian rhythm (Cipolla-Neto, J. (691) 133)

Laminar profile
Field IPSP; $GABA_A$ receptor; Long-term potentiation; Feedforward inhibition; Feedback inhibition; Theta rhythm; Long-term depression; LTP; LTD (Arai, A. (704) 298)

Lamina terminalis
Angiotensin II; Losartan; Paraventricular hypothalamus; Supraoptic nucleus; Kininase II inhibitor; Enalapril; Captopril; Bradykinin antagonist (Hoe 140) (Rowland, N.E. (669) 73)

Wistar rat; WKY rat; Osmoreception; Immediate-early gene; Paraventricular hypothalamus; Supraoptic nucleus; Area postrema (Rowland, N.E. (675) 127)

Lamprey
Slow afterhyperpolarization; Locomotion; Serotonin receptor; Frequency regulation (Wikström, M. (678) 191)

Reticulospinal neurone; Trigeminal input; Excitatory amino acid; Glycine; Locomotion (Viana Di Prisco, G. (695) 76)

Lanthanum
Synaptotagmin II; Synaptic vesicle; Immunolabelling; Quantal release; α-Latrotoxin; Mouse neuromuscular junction (Angaut-Petit, D. (681) 213)

RMP-7; Bradykinin analog; Blood–brain barrier; Tight junction; Permeability; Hypotension (Sanovich, E. (705) 125)

Laser-Doppler flowmetry
Cerebral blood flow; Hyperglycemia; Mannitol; Indomethacin; Nitro-L-arginine methyl ester; Spreading cortical depression; Rat (Duckrow, R.B. (703) 145)

Lashley learning
Microgyria; Discrimination learning; Ectopia; DBA; Neocortex; Brain damage (Rosen, G.D. (681) 177)

Lateral amygdala
Nitric oxide; Long-term potentiation; Medial amygdala; In vitro (Watanabe, Y. (688) 233)

Lateral cervical nucleus
Ventral posterolateral nucleus; Synaptic vesicle; Amino acid; Immunogold; Somatosensory (Kechagias, S. (675) 316)

Lateral dorsal nucleus
Thalamic reticular nucleus; Dorsal lateral geniculate nucleus; Lateral posterior nucleus; Thalamic inhibition (Pinault, D. (670) 147)

Lateral geniculate nucleus
Axonal bifurcation; Retinal ganglion cell; Retrograde fluorescent tracer; Double-labeling (Dong, K. (703) 231)

Lateral hypothalamic area
Autonomic nervous system; Cardiovascular regulation; Corticotrophin releasing factor; Enkephalin; Heart; Medulla oblongata; Neuropeptide Y; Oxytocin; Paraventricular hypothalamic nucleus; Pseudorabies virus; Raphe nuclei; Serotonin; Somatostatin; Stellate ganglion; Sympathetic nervous system (Jansen, A.S.P. (683) 1)

Lateral hypothalamus
Microinjection; Intracraneal temperature; Dopamine; Sulpiride; Dopamine D2 receptor; Brain self-stimulation; Neuroleptic malignant syndrome (Parada, M.A. (674) 117)

Self-stimulation; Parietal; Temporal; Brain metabolism (Harley, C.W. (685) 217)

Morphine; Oxytocin; Vasopressin; Food intake; Ventromedial hypothalamus (Gulati, K. (690) 99)

PACAP; Microinjection; DA; Sulpride; D_2 receptor; Drinking; Osmolarity; Blood pressure (Puig de Parada, M. (696) 254)

Lysine; Amino acid deficient diet; Inhibin; Activin; Follistatin; Operant behavior (Hawkins, R.L. (704) 1)

Lateralization
Amygdala; Lidocaine; Inhibitory avoidance; Learning; Memory; Retrieval (Coleman-Mesches, K. (670) 75)

Amygdala; γ-Aminobutyric acid; Retrieval; Inhibitory avoidance; Learning; Memory (Coleman-Mesches, K. (676) 183)

Lateral olfactory tract
6-Cyano-7-nitroquinoxaline-2,3-dione; 2,3-Dihydroxy-6-nitro-7-sulfamoylbenzo(f)quinoxaline; Kynurenate; Brain slice; Excitatory amino acid (Yang, Q.Z. (680) 207)

Lateral parabrachial nucleus
Intestinal anaphylaxis; c-fos; Paraventricular nucleus; Nucleus of the solitary tract; 5-HT_3 receptors; Vagus nerve (Castex, N. (688) 149)

Angiotensin II; Water intake; Arterial pressure; Thirst; Local anesthetic (Menani, J.V. (695) 250)

Atrial volume receptor; Water intake; Isoproterenol; Rat (Ohman, L.E. (695) 275)

Lateral posterior nucleus
Thalamic reticular nucleus; Dorsal lateral geniculate nucleus; Lateral dorsal nucleus; Thalamic inhibition (Pinault, D. (670) 147)

Lateral tegmental field
Medulla; Cat; Sympathoinhibition; α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; Kynurenic acid; Baroreflex (Dempesy, C.W. (704) 141)

α-Latrotoxin
Synaptotagmin II; Synaptic vesicle; Immunolabelling; Quantal release; Lanthanum; Mouse neuromuscular junction (Angaut-Petit, D. (681) 213)

Layer V
Sensorimotor cortex; Pyramidal neuron; Burst firing (Franceschetti, S. (696) 127)

LDH
Chemical hypoxia; Protein kinase C; Differentiated PC12 cells; Cyanide; Immunohistochemistry; Western blotting; Cytotoxicity (Pavlaković, G. (676) 205)

Leak membrane conductance
Alzheimer's disease; Hippocampal neuron; Amyloid β peptide; β-sheet structure; Aging; Whole-cell voltage-clamp; Circular dichroism spectroscopy (Li, W.Y. (682) 207)

Learned helplessness
Interleukin-1; Interleukin-1 receptor antagonist; Intracerebroventricular; Rat; Stress; Escape; Fear (Maier, S.F. (695) 279)

Arginine-vasopressin; Aversive memory (Kumar, K.B. (699) 293)

Learning
Amygdala; Lateralization; Lidocaine; Inhibitory avoidance; Memory; Retrieval (Coleman-Mesches, K. (670) 75)

Nucleus of solitary tract; Pontine parabrachial nucleus; Conditioned taste aversion; Emetic drug; Area postrema; c-Fos-like immunoreactivity (Swank, M.W. (673) 251)

Amygdala; γ-Aminobutyric acid; Retrieval; Lateralization; Inhibitory avoidance; Memory (Coleman-Mesches, K. (676) 183)

Amygdala; Basolateral complex; Escape training; Inhibitory avoidance; Memory; Retention (Parent, M.B. (676) 235)

Memory; Recognition; Priming; Rat; Recognition; Anesthesia; Consciousness; Rhinal cortex; Single unit; Visual; Hippocampal (Zhu, X.O. (689) 101)

Nitric oxide; Memory; Hemicholinium-3; Choline acetyltransferase (Tobin, J.R. (694) 177)

Inferior olivary complex; Olivocerebellar pathway; 3-Acetylpyridine; Equilibrium behavior; Rat (Jones, N. (697) 216)

Chick forebrain; Synaptic plasticity; *N*-Methyl-D-aspartate receptor (Bradley, P.M. (699) 103)

2-Deoxyglucose; Development; Egr-1; Immediate–early gene; Immunohistochemistry; Odor exposure; Olfactory preference; Transcription factor (Johnson, B.A. (699) 192)

Learning and memory
Septum; Diagonal band of Broca; Basal forebrain; Monoamine; Electron microscopy; Alzheimer's disease (Milner, T.A. (670) 121)

Domestic chick; Intermediate and medial hyperstriatum ventrale; Lobus parolfactorius; *N*-Methyl-D-aspartate receptor (Steele, R.J. (674) 352)

Learning strategy
Spatial memory; Radial arm maze; High affinity choline transport; Cholinergic; Rat (Janis, L.S. (679) 99)

Lesion
Aging; Nucleus basalis magnocellularis; Rat; Neocortex; Morphology; Plasticity (Wellman, C.L. (669) 48)

5-Hydroxytryptamine; 5,7-Dihydroxytryptamine; Dorsal raphe; Median raphe; DRL 20s schedule (Fletcher, P.J. (675) 45)

Muscarinic receptor; Medial septum; Hippocampus; Sympathetic ingrowth; Receptor binding; Pirenzepine (Harrell, L.E. (676) 386)

Muscarinic receptor; Medial septum; Hippocampus; Sympathetic ingrowth; Internalization; Plasticity (Ayyagari, V. (676) 394)

Neurokinin B; Acetylcholine; Nucleus basalis; Aging (Wenk, G.L. (679) 8)

Central nervous system; Postcommissural fornix; Chondroitin/dermatan sulfate proteoglycan; Regeneration (Stichel, C.C. (704) 263)

Lesion site
Spinal cord injury; Methylprednisolone; Secondary injury; Inflammatory reaction; Macrophage invation; Central nervous system (Bartholdi, D. (672) 177)

Leu-enkephalin
Passive avoidance; Memory deficit; Bicuculline; Picrotoxin; Flumazenil (Dubrovina, N.I. (670) 347)

Leu-enkephalin analog
Nanoparticle; Dalargin; Polysorbate 80; Blood–brain barrier; Peptide delivery to the brain (Kreuter, J. (674) 171)

Leukotriene
Astrocyte; Microglia; Arachidonic acid; Eicosanoid; Prostaglandin (Matsuo, M. (685) 201)

Fever mechanism; Neonate; Pyrogen; Prostaglandin; Platelet activating factor; Blood-brain barrier; Organum vasculosum laminae terminalis (Coceani, F. (700) 191)

Leupeptin
[^{3}H]Triamcinolone acetonide; Glucocorticoid receptor; Sodium molybdate; Ion exchange chromatography; Heterogeneity (Yoneda, Y. (685) 105)

Levator ani
Bulbocavernosus; Ischiocavernosus; Steroid; Testosterone (Freeman, L.M. (690) 1)

Levodopa
Parkinson's disease; Fetal transplant; Dopamine neuron; Functional recovery (Steece-Collier, K. (676) 404)

Licking
Rat; Chorda tympani; Taste; Mechanical stimulation; Saliva; Conduction velocity (Matsuo, R. (689) 289)

Lidocaine
Amygdala; Lateralization; Inhibitory avoidance; Learning; Memory; Retrieval (Coleman-Mesches, K. (670) 75)

Trigeminal; Diving reflex; Cardiovascular; Respiration; Glutamate; Kynurenate; Nasal; Medullary dorsal horn; Diving response; Muskrat (Panneton, W.M. (691) 37)

Planar lipid bilayer; Local anesthetic; Batrachotoxin; Subconductance; Sodium channel (Salazar, B.C. (699) 305)

LIF
IL-1β; Axotomy; Receptor; Substance P; Sympathetic; Regulation; Nuclease protection assay; mRNA; Schwann cell; Fibroblast (Ludlam, W.H. (685) 12)

Ligand binding
Genetic epilepsy; Neuron sensitivity; $GABA_A$ receptor; Muscimol; Flunitrazepam; Purkinje neuron; Baclofen; Iontophoresis (Gould, E.M. (698) 62)

Light
Tryptophan hydroxylase; Circadian; Melatonin; Serotonin; Retina; Dopamine; *Xenopus* (Green, C.B. (677) 283)

GnRH; Immunocytochemistry; Reproduction; Phenotypic variation; Deer mouse (Korytko, A.I. (685) 135)

Circadian rhythm; α-Fluoromethylhistidine; FMH; Hamster; Histamine; Suprachiasmatic nucleus (Eaton, S.J. (695) 227)

Light and electron microscopy
Supragenicular nucleus; Superior colliculus; Bilateral projection; WGA–HRP; Fluorescent tracer; Double-labeled neuron; Extrageniculate visual system; Cat (Katoh, Y.Y. (669) 298)

Light cycle
CA1 stratum radiatum; Schaffer collateral; Hippocampus; Estrogen; Sex difference (Warren, S.G. (703) 26)

Light intensity
Suprachiasmatic nucleus; Aging; Vasopressin; Vasoactive intestinal polypeptide; Immunocytochemistry (Lucassen, P.J. (693) 261)

Limbic
γ-Aminobutyric acid; Development; Cocaine; Cortex; Anterior cingulate (Wang, X.-H. (689) 32)

Limbic cortex
Interneurons; Inhibition; Nitric oxide; Long-term potentiation (Gabbott, P.L.A. (699) 321)

Limbic epilepsy
μ-Opioid receptor agonist; DAMGO; Local cerebral glucose utilization; Brain site; Memory; Mood; Antinociception (Fabian, I. (697) 205)

Limbic system
Fast Blue; Tyrosine hydroxylase; Stria terminalis; Catecholamine; Nucleus tractus solitarius (Terenzi, M.G. (672) 289)

Brain stimulation; Aversion; Defense; Kainate; $GABA_A$ antagonist; c-*fos* Proto-oncogene; Medial hypothalamus (Silveira, M.C.L. (674) 265)

Hypermetabolism; MK-801; NBQX; Glucose utilisation (Patel, T.R. (686) 254)

Excitotoxin; Subiculum; Kainate receptor; Papez circuit; Silver staining; *Macaca fascicularis* (Schmued, L.C. (695) 64)

Central nucleus of the amygdala; A1 noradrenergic cell group; Cardiovascular regulation (Roder, S. (705) 71)

Lindane
GABA receptor channel; HCH isomer; Insecticide; Chloride current; Dorsal root ganglion (Nagata, K. (704) 85)

Lingual nerve
Reinnervation; Nerve repair; Chorda tympani; Tongue; Taste; Salivary gland (Smith, K.G. (691) 142)

Linoleic acid
Animal model; Senescence-accelerated mouse; Dietary oil; α-Linolenic acid; Sidman-active avoidance; Discrimination learning (Umezawa, M. (669) 225)

α-Linolenic acid
Animal model; Senescence-accelerated mouse; Dietary oil; Linoleic acid; Sidman-active avoidance; Discrimination learning (Umezawa, M. (669) 225)

Lipid
Brain; Arachidonate; Docosahexaenoate; Palmitate; Deoxyglucose; Quantitative autoradiography; Visual system; Orbital enucleation; Rat; Fatty acid; Phospholipid; Glucose; Vision; Neuroplasticity (Wakabayashi, S. (679) 110)

Alzheimer's disease; Brain; Membrane; Ethanolamine plasmalogen (Ginsberg, L. (698) 223)

Lipid peroxidation
Cell culture; Cerebral cortex; Excitotoxicity; Free radical; Glutamate; Head trauma (Regan, R.F. (682) 144)

Manganese; Ferrous citrate; Neurotoxicity; Dopamine; Nigrostriatal neuron; Free radical; Mn-SOD (Sziráki, I. (698) 285)

Lipofuscin
Alzheimer; Hypothalamus; Nucleus tuberalis; Alz-50; Golgi apparatus (Salehi, A. (678) 29)

Lipolysis
Nycthemeral modulation; Feeding behavior; Energy expenditure; Respiratory quotient (Ruffin, M.-P. (700) 121)

Lipopolysaccharide
Cyclooxygenase-2; Fever; Brain; Hybridization, in situ; Prostaglandin (Cao, C. (697) 187)

Astrocyte; Microglia; 6-hydroxydopamine; Tyrosine hydroxylase; Dopamine; Parkinson's disease; Substantia nigra (Bronstein, D.M. (704) 112)

Fever; Rabbit; α_1-Adrenoceptor; α_2-Adrenoceptor subtype; Sympathetic nervous system; Norepinephrine (Bencsics, A. (705) 302)

Epiplexus cell; Choroid epithelial cell; Nitric oxide synthase-like immunoreactivity; Postnatal rat (Lu, J. (699) 275)

Liposome
Phenytoin; Amygdala; Dibutyryl-cAMP; Status epilepticus; Horseradish peroxidase; Blood-brain barrier (Mori, N. (703) 184)

Liposome endocytosis
Neuronal network; Multielectrode array; Cell culture (Azzazy, H.M.E. (695) 231)

Lipoxygenase
Aplysia; Eicosanoid; FMRFa; Electrophysiology (Abe, M. (683) 200)

Lithium
Inositol; Cholinergic; Serotonergic; Phosphoinositide; Seizure (Williams, M.B. (685) 169)

Excitatory amino acid; Passive avoidance; Neurotoxicity; Basal forebrain (Pascual, T. (695) 289)

Lithium phthalocyanine
Cerebral pO_2; EPR oximetry; Anesthesia; Ischemia (Liu, K.J. (685) 91)

Liver
Glutathione; Amino acid; Aging; Brain area; Malnutrition (Benuck, M. (678) 259)

Lizard
Christinus marmoratus; Melatonin; Pineal organ; Circadian rhythm; In vitro (Moyer, R.W. (675) 345)

***L*-NAME**
Methamphetamine; Nitric oxide; Nitric oxide synthase inhibitor (Abekawa, T. (679) 200)

Lobus parolfactorius
Domestic chick; Intermediate and medial hyperstriatum ventrale; *N*-Methyl-D-aspartate recep-

tor; Learning and memory (Steele, R.J. (674) 352)

Local anesthetic
Lateral parabrachial nucleus; Angiotensin II; Water intake; Arterial pressure; Thirst (Menani, J.V. (695) 250)

Planar lipid bilayer; Lidocaine; Batrachotoxin; Subconductance; Sodium channel (Salazar, B.C. (699) 305)

Local cerebral blood flow
N^G-Nitro-L-arginine methyl ester; Nitroarginine; [^{14}C]Iodoantipyrine; Cerebral blood flow; Brain; Autoregulation (Takahashi, S. (678) 21)

Local cerebral glucose utilization
μ-Opioid receptor agonist; DAMGO; Brain site; Limbic epilepsy; Memory; Mood; Antinociception (Fabian, I. (697) 205)

Glucose transport; Brain metabolism; Immunoautoradiography; Autoradiography; Glucose metabolism; Antibody (Zeller, K. (698) 175)

Local injection
Rat; Sleep; Wake; Nucleus raphe dorsalis; Corticotropin-like intermediate lobe peptide; Vasoactive intestinal polypeptide; *p*-Chlorophenylalanine (El Kafi, B. (686) 150)

Localization
Cytochrome P450scc; Immunohistochemistry; Immunoblotting; Brain; Japanese quail (Usui, M. (678) 10)

mCalpain; Myelin sheath; Rat nervous system; Myelin basic protein; Neurofilament protein; Neuron; Glial cell (Li, Z. (697) 112)

Locomotion
Nicotine; Ventral tegmentum; Mesolimbic; Dopamine; Rat (Museo, E. (670) 257)

Spinal; Ia; II; Stretch; Joint; Human (Cheng, J. (672) 89)

Behavioral sensitization; Medial prefrontal cortex; Dopamine; Nucleus accumbens; Excitatory amino acid; Glycine B receptor (Morrow, B.A. (673) 165)

Inhibition; Facilitation; Passive; Cycling (Misiaszek, J.E. (677) 69)

Theta rhythm; Hypothalamic locomotor region; Hippocampus (Sławińska, U. (678) 117)

Slow afterhyperpolarization; Serotonin receptor; Frequency regulation; Lamprey (Wikström, M. (678) 191)

Reticulospinal neurone; Trigeminal input; Excitatory amino acid; Glycine; Lamprey (Viana Di Prisco, G. (695) 76)

Ia; Ib; Cutaneous (Misiaszek, J.E. (702) 271)

Locomotor activity
p-Chloroamphetamine; Benzodiazepine; Monoamine; Circadian rhythm (Penev, P.D. (669) 207)

Cocaine; Sulpiride; SCH-23390; Dopamine receptor; D1-like; D2-like; *N*-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Receptor occupancy; Stereotypy; Nucleus accumbens (Neisewander, J.L. (671) 201)

Stress; Corticosterone; Hypothalamic-pituitary-adrenal axis; Novel environment; Novelty; Sensitization; Context-specific sensitization; Environment-specific sensitization; Rotational behavior; Rearing behavior; Rat (Badiani, A. (673) 13)

Circadian rhythm; Methamphetamine; Haloperidol; Suprachiasmatic nucleus; Phase–response curve (Honma, S. (674) 283)

Adenylyl cyclase; Cyclic AMP; Cocaine; Nucleus accumbens; Sensitization; Cyclic AMP-dependent protein kinase (Miserendino, M.J.D. (674) 299)

d-Amphetamine; Dopamine; 6-Hydroxydopamine; Microdialysis; Neostriatum; Schizophrenia; Stress (King, D. (685) 117)

Opioid; Mu-opioid receptor; CTOP; Ventral tegmental area; Nucleus accumbens; Feeding; Drinking; Rat (Badiani, A. (690) 112)

Rat strain; Novel environments; Tryptophan hydroxylase; Serotonin-1A receptors; Hypothalamo-pituitary-adrenal axis; Anxiety (Chaouloff, F. (693) 169)

Locus coeruleus
Aromatic L-amino acid decarboxylase; L-5-Hydroxytryptophan; Serotonin; Monoamine oxidase; Dopaminergic neuron; Noradrenergic neuron; Substantia nigra pars compacta (Arai, R. (669) 145)

Morphine; Opiate withdrawal; Glutamate; Metabotropic receptor; Desensitization; Protein kinase C; Protein phosphatase (Kogan, J.H. (689) 111)

Push–pull superfusion; Glutamate release; Aspartate release; GABA release; Immobilization stress; Tail pinch; Blood pressure (Singewald, N. (704) 42)

Long-Evans Cinnamon rat
Copper; Manganese; Molybdenum; Rubidium; Zinc; Brain; Wilson disease (Saito, T. (695) 240)

Long term depression
Medial vestibular nucleus; *N*-Methyl-D-aspartate receptor; GABA receptor; High frequency stimulation; Field potential (Grassi, S. (699) 183)

Field IPSP; $GABA_A$ receptor; Long-term potentiation; Feedforward inhibition; Feedback inhibition; Laminar profile; Theta rhythm; LTP; LTD (Arai, A. (704) 298)

Calcineurin; FK506; Hippocampus; Long-term potentiation; Miniature EPSP (Hodgkiss, J.P. (705) 241)

Long-term potentiation
E–S potentiation; Dendritic membrane activation; Current–source density analysis; Hippocampus; Slice; CA1; Rat (Vida, I. (671) 1)

Dopamine release; Ischemia; Striatum; Glutamate (Inoue, H. (671) 95)

Carbonic anhydrase; Mutant mouse; Acidosis; *N*-Methyl-D-aspartate receptor (Velíšek, L. (671) 245)

Hippocampus; Basolateral amygdala; Tetracaine; Neuron activity (Ikegaya, Y. (671) 351)

Neural cell adhesion molecule; NCAM; Hippocampus; CA1; Synaptic plasticity (Rønn, L.C.B. (677) 145)

α-Tocopherol; Hippocampal slice; CA1 neuron; Excitatory post-synaptic potential; Vitamin E-deficiency (Xie, Z. (681) 193)

Protein kinase C isoenzyme; Translocation; Synaptic plasticity; Glutamate receptor agonist (Staak, S. (682) 55)

NBQX; Selective AMPA receptor antagonist; Field potential; In vivo (Sato, K. (683) 279)

Dentate gyrus; Opioid; $GABA_A$ receptor; Disinhibition (Xie, C.W. (688) 56)

Nitric oxide; Medial amygdala; Lateral amygdala; In vitro (Watanabe, Y. (688) 233)

Mouse; Dentate granule cell; Protein synthesis; Cycloheximide; Anisomycin; Calcium buffering (Namgung, U. (689) 85)

Theta-frequency primed burst; Current source density; APV; Inhibitory interneuron; CA3 (Roth, L.R. (694) 40)

Hippocampus; Metabotropic glutamate receptor; (*RS*)-α-Methyl-4-carboxyphenylglycine; *trans*-1-Amino-cyclopentyl-1,3-dicarboxylate; Molecular switch (Thomas, M.J. (695) 45)

Suprachiasmatic nucleus; Field potential; Circadian rhythm (Nishikawa, Y. (695) 158)

Bicuculline methiodide; Social interaction; Conflict; Kindling (Sanders, S.K. (699) 250)

Interneurons; Inhibition; Nitric oxide; Limbic cortex (Gabbott, P.L.A. (699) 321)

Neurosteroid; Ethanol; Dehydroepiandrosterone sulfate; *N*-Methyl-D-amphetamine; $GABA_A$; AMPA (Randall, R.D. (701) 238)

Kindling; Kindling-induced potentiation; Plasticity; Memory; Neocortex; Corpus callosum (Racine, R.J. (702) 77)

Plasticity; Memory; Neocortex; Corpus callosum (Racine, R.J. (702) 87)

Field IPSP; $GABA_A$ receptor; Feedforward inhibition; Feedback inhibition; Laminar profile; Theta rhythm; Long-term depression; LTP; LTD (Arai, A. (704) 298)

Calcineurin; FK506; Hippocampus; Long-term depression; Miniature EPSP (Hodgkiss, J.P. (705) 241)

Long-term potentiation / depression
Posterior cingulate cortex; Subiculum; Synaptic plasticity; Electrophysiology, in vitro (Hedberg, T.G. (670) 181)

Lorazepam
Flumazenil; Diazepam; Interaction; Hexobarbital anesthesia threshold; Electroencephalographic threshold technique (Korkmaz, S. (676) 371)

Lordosis
c-fos; c-jun; Estradiol; Fos; Jun-B; Jun-D; Progesterone; Sexual behavior (Flanagan-Cato, L.M. (673) 53)

β-Endorphin; Opioid; Hypothalamus; Medial preoptic area; Estrogen; Progesterone (Cheung, S. (675) 83)

Medial preoptic area; Ventromedial hypothalamus; Progesterone; Neuropeptide (Whitman, D.C. (680) 73)

Dopamine; Sex; Female rat; Estrogen; Progesterone; Microdialysis (Pfaus, J.G. (693) 21)

Losartan
Angiotensin II; Paraventricular hypothalamus; Supraoptic nucleus; Lamina terminalis; Kininase II inhibitor; Enalapril; Captopril; Bradykinin antagonist (Hoe 140) (Rowland, N.E. (669) 73)

Angiotensin; Receptor; Subtype; Human; Brain; Autoradiography (MacGregor, D.P. (675) 231)

Angiotensin II; Dopamine; Rotation; Striatum; Substantia nigra; Haloperidol (Jenkins, T.A. (691) 213)

Low ambient temperature
Wake–sleep cycle; Cyclic AMP; Anteroventro-medial hypothalamus; Cerebral cortex; Pineal gland; Interscapular brown adipose tissue (Perez, E. (684) 56)

Low molecular weight
Acid phosphatase; Antibody; Protein level; Activity; Alzheimer's disease (Shimohama, S. (699) 125)

LTD
Field IPSP; $GABA_A$ receptor; Long-term potentiation; Feedforward inhibition; Feedback inhibition; Laminar profile; Theta rhythm; Long-term depression; LTP (Arai, A. (704) 298)

LTP
(1*S*,3*R*)-1,3-Aminocyclopentane-3-dicarboxylic acid; Metabotropic glutamate receptor; *N*-Methyl-D-aspartate; Hippocampus; CA1–CA3; Synaptic transmission (Collins, D.R. (684) 165)

Aging; Rat; Hippocampus; Morris water maze (Diana, G. (686) 107)

Alcohol; Body temperature; Memory; θ-Pattern (Givens, B. (688) 27)

Field IPSP; $GABA_A$ receptor; Long-term potentiation; Feedforward inhibition; Feedback inhibition; Laminar profile; Theta rhythm; Long-term depression; LTD (Arai, A. (704) 298)

L-type calcium channel
Morphine tolerance; Antinociception; Dihydropyridine; Thapsigargin; Spinal cord; Brainstem; Striatum (Bernstein, M.A. (696) 83)

Lucigenin
Ischemia model; Reoxygenation; Brain development; Scavenger (Schreiber, S.J. (703) 227)

Luteinising hormone
Adrenaline; Brainstem; Fos; Immunocytochemistry; Noradrenaline (Condé, G.L. (672) 68)

Luteinizing hormone
Glucocorticoid; Corticosterone; RU 28362 (Briski, K.P. (670) 66)

Opioid receptor; Norepinephrine; Medial preoptic area; Pregnancy; Push-pull perfusion; HPLC (Zhen, S. (698) 121)

Neuropeptide Y; β-Endorphin; Feeding; Hypothalamus; Opiate; Push–pull perfusion (Kalra, P.S. (705) 353)

LY 231617
Global ischemia; Antioxidant; Rat (Block, F. (694) 308)

B-Lymphocyte
Cytokine; Cytotoxic T-lymphocyte; Mouse; Morphine abstinence; Morphine tolerance; Naltrexone; Natural killer cell; Opioid receptors; T-Lymphocyte (Bhargava, H.N. (690) 121)

T-Lymphocyte
B-Lymphocyte; Cytokine; Cytotoxic T-lymphocyte; Mouse; Morphine abstinence; Morphine tolerance; Naltrexone; Natural killer cell; Opioid receptors (Bhargava, H.N. (690) 121)

Lyotropic series
Taste response; Salt; Glossopharyngeal nerve; Cation-induced response; Receptor for cation; Anion modulation; Frog (Kitada, Y. (694) 253)

Lysine
Lateral hypothalamus; Amino acid deficient diet; Inhibin; Activin; Follistatin; Operant behavior (Hawkins, R.L. (704) 1)

Lysosome
Colchicine; Microtubule; Dendrite; Neuronal transport; Hypoglossal nucleus; Fluorescent microsphere (Beske, O. (669) 125)

Retrograde axonal transport; Albumin; Transferrin; Transferrin receptor; Motor neuron; Ultrastructure; Toxic metal; Amyotrophic lateral sclerosis; Rat (Moos, T. (672) 14)

Immunohistochemistry; Electron microscopy; Neuron; Plasma membrane; Apolipoprotein E (Tooyama, I. (691) 235)

M

μ
Ventral tegmental area; Opioid; DAMGO; DPDPE; δ; Feeding (Noel, M.B. (673) 304)

M3
Acetylcholine; AF-DX 116; Brain slice; Carbachol; Estrogen; 4-DAMP; McN-A-343; Muscarinic receptor subtype; Oxotremorine-M; *p*-F-HHSiD; Pirenzepine; Single-unit activity (Kow, L.-M. (694) 29)

MAC
Isoflurane; General anesthetic; Nociceptive modulation; Pain; Raphe magnus (Leung, C.G. (699) 71)

Macaca fascicularis
Excitotoxin; Limbic system; Subiculum; Kainate receptor; Papez circuit; Silver staining (Schmued, L.C. (695) 64)

Basal ganglia; Striatum; Striatopallidal projection; Striatonigral projection; Single-cell labeling study; Cynomolgus monkey (Parent, A. (698) 280)

Social stress; Serotonin; 5-Hydroxyindoleacetic acid; Animal model; Prefrontal cortex (Fontenot, M.B. (705) 105)

Macaca mulatta
Amygdala; *Wisteria floribunda* agglutinin; Extracellular matrix; Calcium-binding protein; γ-Aminobutyric acid; Double labelling (Härtig, W. (698) 265)

Macrophage
Nerve regeneration; Degeneration; Schwann cell; Nerve graft; Myelin; Microcirculation (Dahlin, L.B. (679) 274)

Morphine; Opioid; Brain cell culture; Microglia; Astrocyte; C6 glioma; Kupffer cell (Dobrenis, K. (686) 239)

Cerebral ischemia; Ischemic tolerance; Microglia; Immunohistochemistry; Hippocampus; Rat (Kato, H. (694) 85)

Macrophage invation
Spinal cord injury; Methylprednisolone; Lesion site; Secondary injury; Inflammatory reaction; Central nervous system (Bartholdi, D. (672) 177)

Magnesium
Hippocampus; Synaptic transmission; Potassium; Calcium; pH; Temperature; Hibernation (Igelmund, P. (689) 9)

Metabotropic glutamate receptor; Excitatory amino acid; Autoreceptor; Positive feedback; Spinal cord (Gotani, H. (689) 281)

Ethanol; Hippocampus; *N*-Methyl-D-aspartate; Withdrawal; CGP39551; Field potential (Ripley, T.L. (699) 1)

Prejunctional inhibition; Acetylcholine; ω-Conotoxin; Nitroxidergic nerve; Vasoactive intestinal polypeptide (Toda, N. (700) 213)

Bicuculline methiodide; Extracellular field potential; γ-Aminobutyric acid; Potassium; Seizure (Watson, P.L. (700) 227)

Magnetic resonance imaging (MRI)
Anisotropy; Diffusion; Jimpy; Histology; Myelination (Ono, J. (671) 141)

Hyperglycemia; Cerebral ischemia; Reperfusion injury; Nitric oxide (Quast, M.J. (677) 204)

Blood–brain barrier; Osmolality; Demyelination (Adler, S. (679) 135)

Fibroblast growth factor, basic (bFGF); Cerebral ischemia (Roberts, T.P.L. (699) 51)

Middle latency auditory evoked magnetic field; Middle latency auditory evoked response; Human auditory cortex; Magnetoencephalography; Superconducting quantum interference device (Yoshiura, T. (703) 139)

Magnetic stimulation
Motor unit; Pyramidal tract; Silent period (Rossini, P.M. (676) 314)

Cerebellum; Motor cortical excitability; Corticospinal neuron; Dentato-thalamo-cortical pathway; Dentate nucleus; Superior cerebellar peduncle (Saito, Y. (694) 200)

Depression; Electroconvulsive shock; Apomorphine-induced stereotypy; Swim test; Seizure inhibition (Fleischmann, A. (699) 130)

Magneto-encephalography
Motor cortex; Somatosensory cortex; Human; Neuromagnetic source localisation; Somatosensory evoked field; Movement-related magnetic field (Kristeva-Feige, R. (682) 22)

Somatosensory cortex; Evoked response; Median nerve; Ulnar nerve; Human (Forss, N. (685) 68)

α Rhythm; Brain spontaneous activity; Evoked rhythm; Brain rhythm functional correlate; Brain frequency responsiveness (Narici, L. (703) 31)

Middle latency auditory evoked magnetic field; Middle latency auditory evoked response; Human auditory cortex; Superconducting quantum interference device; Magnetic resonance imaging (Yoshiura, T. (703) 139)

Magnocellular neurosecretory system
Activins; Nucleus of the solitary tract; Paraventricular nucleus; Somatostatin; Supraoptic nucleus (Sawchenko, P.E. (694) 233)

Major depression
Schizophrenia; D_4-dopamine receptor; Guanine nucleotide; Gpp(NH)p; Human brain; [^{3}H]Raclopride; [^{3}H]YM-09151–2 (Sumiyoshi, T. (681) 109)

Male rat
Dopamine; Sexual behavior; Medial preoptic area; Microdialysis; CA column (Sato, Y. (692) 66)

Male sexual behavior
Song control nucleus; Immunocytochemistry; Volume reconstruction; Zebra finch; *Taeniopygia guttata* (Ball, G.F. (699) 83)

Male sexual interest
Odor preference; Estrous female odor; Neurosteroid; Pregnenolone sulfate; *N*-Methyl-D-aspartate receptor; Olfactory response; Anxiety (Kavaliers, M. (682) 222)

Malnutrition
Glutathione; Amino acid; Aging; Brain area; Liver (Benuck, M. (678) 259)

Malonate
Excitotoxicity; Glutamate; Neurotoxicity; Microdialysis; γ-Aminobutyric acid (Messam, C.A. (684) 221)

Mamillary body
Hybridization, in situ; Peptide precursor; Dorsal subiculum; Hippocampus (Nicot, A. (702) 279)

Man
Ib afferent; Cutaneous afferent; Pain; Motor control (Rossi, A. (700) 164)

Manganese
Brain; Zinc; Biological half-life; Zinc-containing neuron terminal (Takeda, A. (695) 53)

Copper; Molybdenum; Rubidium; Zinc; Long-Evans Cinnamon rat; Brain; Wilson disease (Saito, T. (695) 240)

Ferrous citrate; Lipid peroxidation; Neurotoxicity; Dopamine; Nigrostriatal neuron; Free radical; Mn-SOD (Sziráki, I. (698) 285)

Mannitol
Cerebral blood flow; Hyperglycemia; Laser-Doppler flowmetry; Indomethacin; Nitro-L-arginine methyl ester; Spreading cortical depression; Rat (Duckrow, R.B. (703) 145)

M2 antagonist
BIBN 99; Cholinergic; Memory; Morris water maze; Muscarinic; Rat; Traumatic brain injury; Treatment (Pike, B.R. (686) 37)

MAP2
Head injury; Cytoskeleton; Fluid-percussion; Neuropathology; Kynurenate (Hicks, R.R. (678) 151)

Phenytoin; Cytoskeleton; Mouse brain; Cerebellum; Cell culture (Kempermann, G. (687) 194)

Fodrin; Calpain; Neonatal; Brain damage; Ischemia; Hypoxia (Blomgren, K. (684) 136)

Hippocampus; Ischemia, in vitro; Tubulin; Heat shock protein (Raley-Susman, K.M. (694) 94)

MAP kinase
Nerve growth factor; ERK; PC12D cell; Neurite; Staurosporine (Sano, M. (688) 213)

Mapping
Bandwidth; Guinea pig; Receptive field; Threshold; Tuning (South, D.A. (704) 275)

Marijuana
Cannabis; Circling; Catalepsy; Basal ganglia (Anderson, L.A. (691) 106)

Marker enzyme
Human brain; Subcellular distribution; Ultrastructure; Receptor (Maloteaux, J.-M. (687) 155)

Masculine sexual behavior
Sexual exhaustion; Medial preoptic area; Microdialysis; Dopamine; Dihydroxyphenylacetic acid; Homovanillic acid; 5-Hydroxyindoleacetic acid (Mas, M. (675) 13)

Masseter inhibition
Digastric reflex; Periodontal mechanoreceptor; Naturally behaving rabbit (Yamada, Y. (669) 86)

Maternal behavior
Pregnancy; Parturition; Preoptic area; Brainstem; Oxytocin; Noradrenalin (Luckman, S.M. (669) 115)

[^{14}C]2-Deoxyglucose autoradiography; Parturition; Sensitization; Vomeronasal system; Medial preoptic area (Del Cerro, M.C.R. (696) 213)

Maternal experience
Oxytocin; Vasopressin; Olfactory bulb; Sheep (Lévy, F. (669) 197)

Maternal separation
Handling; Gentling; Neonatal period; Stress; Experimental allergic encephalomyelitis; DA rat (Laban, O. (676) 133)

Maternal stress
Amygdala; Anxiety; Brain mince; Corticotropin-releasing factor; Development; Prenatal stress (Cratty, M.S. (675) 297)

Mathematical model
Tissue culture; Hippocampal neuron; Dendritic growth (Uemura, E. (671) 187)

Matrix metalloproteinase
Blood-brain barrier; Brain edema; Plasminogen activator; Tumor necrosis factor-α; Rat (Rosenberg, G.A. (703) 151)

Matrix protein
Amyloid precursor protein; Signal transduction; PC-12 cell; Olfactory neuroblast; Alzheimer's disease; NGF (Luo, Y.Q. (681) 65)

MCA occlusion
Adhesion molecule; CD11b antibody; CD18 antibody; Rat (Zhang, Z.G. (698) 79)

McN-A-343
Acetylcholine; AF-DX 116; Brain slice; Carbachol; Estrogen; 4-DAMP; M3; Muscarinic receptor subtype; Oxotremorine-M; *p*-F-HHSiD; Pirenzepine; Single-unit activity (Kow, L.-M. (694) 29)

MCPG
Metabotropic glutamate receptor; Epilepsy; 4-Aminopyridine; Amygdala; Ictal; Interictal; mGluR (Arvanov, V.L. (669) 140)

MDMA
Nucleus accumbens; Ecstasy; Striatum; Withdrawal; Drug abuse; Cocaine (White, S.R. (681) 167)

Mean arterial pressure
Intracerebroventricular; Heart rate; Pirenzepine; 4-DAMP; Methoctramine; Atropine; Anesthesia (Ally, A. (677) 268)

Mecamylamine
Acetylcholine release; Atropine; CP 93129; Fimbria-fornix; Hippocampus; Methiothepin; 2-methyl-Serotonin; Oxotremorine; Septal graft (Cassel, J.-C. (704) 153)

Mechanical allodynia
Nerve growth factor; Neuropathic pain; Osmotic pump; Thermal hyperalgesia; Rat (Ren, K. (699) 286)

Mechanical stimulation
Rat; Chorda tympani; Licking; Taste; Saliva; Conduction velocity (Matsuo, R. (689) 289)

Mechanoreceptor
Sodium channel; Immunocytochemistry; Spider; Glia; Sensory; Arthropod (Seyfarth, E.-A. (683) 93)

Medial amygdala
Prenatal stress; MePV; MePD; Sexually dimorphic nucleus; Sexual differentiation; Ejaculatory behavior; Rodent; Morphometry (Kerchner, M. (672) 251)

Nitric oxide; Long-term potentiation; Lateral amygdala; In vitro (Watanabe, Y. (688) 233)

Medial basal hypothalamus
Progesterone; Progesterone-3-BSA receptor; G protein; Estrogen; Preoptic area (Caldwell, J.D. (693) 225)

Medial geniculate
Amygdala; Conditioning; Habituation; Extinction; Heart rate; Rabbit (McEchron, M.D. (682) 157)

Medial geniculate nucleus
Angiotensin II; AT_2 receptor; Quantitative autoradiography; CGP 42112; Inferior olive; Brain development (Heemskerk, F.M.J. (677) 29)

Medial hypothalamus
Brain stimulation; Aversion; Defense; Kainate; $GABA_A$ antagonist; c-*fos* Proto-oncogene; Limbic system (Silveira, M.C.L. (674) 265)

Medial olivocochlear efferent
Evoked otoacoustic emission; Acoustic reflex; Vestibular neurotomy (Giraud, A.L. (705) 15)

Medial prefrontal cortex
Behavioral sensitization; Dopamine; Nucleus accumbens; Excitatory amino acid; Glycine B receptor; Locomotion (Morrow, B.A. (673) 165)

Exogenous compound; Recovery, in vivo; Calibration, in vivo (Pan, W.H.T. (686) 249)

Medial preoptic area
Vasopressin; Testosterone; Hamster; Autoradiography; Anterior hypothalamus; Flank marking (Johnson, A.E. (674) 153)

Masculine sexual behavior; Sexual exhaustion; Microdialysis; Dopamine; Dihydroxyphenylacetic acid; Homovanillic acid; 5-Hydroxyindoleacetic acid (Mas, M. (675) 13)

β-Endorphin; Opioid; Hypothalamus; Estrogen; Progesterone; Lordosis (Cheung, S. (675) 83)

Lordosis; Ventromedial hypothalamus; Progesterone; Neuropeptide (Whitman, D.C. (680) 73)

Dopamine; Sexual behavior; Microdialysis; Male rat; CA column (Sato, Y. (692) 66)

Maternal behavior; [^{14}C]2-Deoxyglucose autoradiography; Parturition; Sensitization; Vomeronasal system (Del Cerro, M.C.R. (696) 213)

Luteinizing hormone; Opioid receptor; Norepinephrine; Pregnancy; Push-pull perfusion; HPLC (Zhen, S. (698) 121)

Medial septum
Muscarinic receptor; Hippocampus; Sympathetic ingrowth; Lesion; Receptor binding; Pirenzepine (Harrell, L.E. (676) 386)

Muscarinic receptor; Hippocampus; Sympathetic ingrowth; Lesion; Internalization; Plasticity (Ayyagari, V. (676) 394)

Muscarinic receptor; Hippocampus; Sympathetic ingrowth; Plasticity (Kolasa, K. (684) 201)

β-Amyloid; Calcium-binding protein; Choline acetyltransferase; Cholinotoxicity; Parvalbumin (Harkany, T. (698) 270)

Medial vestibular nucleus
Nucleus magnocellularis; Nucleus laminaris; Inhibition; Brain slice; γ-Aminobutyric acid; Receptor (Hyson, R.L. (677) 117)

Long term depression; *N*-Methyl-D-aspartate receptor; GABA receptor; High frequency stimulation; Field potential (Grassi, S. (699) 183)

Medial zona incerta
Efferent; *Phaseolus vulgaris* leucoagglutinin; Anterograde tract tracing (Wagner, C.K. (677) 229)

Median eminence
Angiotensin receptor; Second messenger system; Quantitative autoradiography (Seltzer, A.M. (705) 24)

Median nerve
Somatosensory cortex; Magnetoencephalography; Evoked response; Ulnar nerve; Human (Forss, N. (685) 68)

Median raphe
5-Hydroxytryptamine; 5,7-Dihydroxytryptamine; Dorsal raphe; Lesion; DRL 20s schedule (Fletcher, P.J. (675) 45)

Median raphe nucleus
Serotonin; Norepinephrine; Dopamine; Monoamine metabolite; 5,7-Dihydroxytryptamine; Alcohol drinking; Ethanol; Brain region; Dorsal raphe nucleus; Sprague–Dawley rat (Adell, A. (693) 70)

σ-Mediated neuroprotection
Glutamate toxicity; Lactate dehydrogenase; Neuronal culture; Intracellular calcium; Neuronal morphology (DeCoster, M.A. (671) 45)

Medicinal leech
Glial cell; Retzius neurone; Intracellular Ca^{2+}; Extracellular K^+; Ca^{2+} channel; Menthol (Hochstrate, P. (696) 231)

Medulla
Brainstem; Fos; Histochemistry; Hypothalamus; NADPH-Diaphorase; Nitric oxide; Nitroglycerin (Tassorelli, C. (695) 37)

Cat; Lateral tegmental field; Sympathoinhibition; α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; Kynurenic acid; Baroreflex (Dempesy, C.W. (704) 141)

Ro 15-4513; $GABA_A$ receptor; Benzodiazepine; Hippocampus; Cerebellum; Spinal cord (Mehta, A.K. (704) 289)

Medulla oblongata
A-current; Anomalous rectifier; Autonomic nervous system; Brainstem slice; Central adrenergic neuron; DiI retrograde transport; Medulla oblongata; Pacemaker neurons; Persistent sodium current; Sympathetic nervous system; Vasomotor control (Kangrga, I.M. (670) 215)

A-current; Anomalous rectifier; Autonomic nervous system; Brainstem slice; Central adrenergic neuron; DiI retrograde transport; Pacemaker neurons; Persistent sodium current; Medulla oblongata; Sympathetic nervous system; Vasomotor control (Kangrga, I.M. (670) 215)

Herpes simplex virus; Fos; Vagus nerve (Gieroba, Z.J. (675) 329)

Autonomic nervous system; Cardiovascular regulation; Corticotrophin releasing factor; Enkephalin; Heart; Lateral hypothalamic area; Neuropeptide Y; Oxytocin; Paraventricular hypothalamic nucleus; Pseudorabies virus; Raphe nuclei; Serotonin; Somatostatin; Stellate ganglion; Sympathetic nervous system (Jansen, A.S.P. (683) 1)

Fos; Bezold–Jarisch reflex (Gieroba, Z.J. (683) 43)

Vagus; Feeding; Microdialysis; Raphe (Mohammed, J.R. (695) 100)

Medullary dorsal horn
Trigeminal; Diving reflex; Cardiovascular; Respiration; Glutamate; Kynurenate; Lidocaine; Nasal; Diving response; Muskrat (Panneton, W.M. (691) 37)

Single cell recording; Descending inhibition; Thermal nociception; Microiontophoresis; Monoamine; α-Adrenoreceptor; Caudal trigeminal nucleus (Cahusac, P.M.B. (700) 70)

Medullary inspiratory neuron
Phrenic motoneuron; Cross-correlation; Rat (Duffin, J. (694) 55)

MEK
Neurotrophic; Retrograde axonal transport; Phosphatidylinositol 3-kinase; PI 3-kinase; ERK; MEK kinase; GAP-43; Signal transduction (Johanson, S.O. (690) 55)

MEK kinase
Neurotrophic; Retrograde axonal transport; Phosphatidylinositol 3-kinase; PI 3-kinase; ERK; MEK; GAP-43; Signal transduction (Johanson, S.O. (690) 55)

α-Melanocyte-stimulating hormone
Interleukin-6; Hyperalgesia; Prostaglandin; Pain; Central nervous system (Oka, T. (692) 123)

α-Melanocyte stimulating hormone
Interleukin-1β; Preoptic area; Ventromedial hypothalamus; Hyperalgesia; Analgesia; Diagonal band of Broca; Prostaglandin; Pain (Oka, T. (700) 271)

Melatonin
Acetyl-CoA; Serotonin *N*-acetyltransferase; Arylamine *N*-acetyltransferase; Circadian rhythm (Wolfe, M.S. (669) 100)

5-Methoxytryptophol; Pineal organ; Human; Photoperiod; Season; Circadian rhythm (Hofman, M.A. (671) 254)

Lizard; *Christinus marmoratus*; Pineal organ; Circadian rhythm; In vitro (Moyer, R.W. (675) 345)

Tryptophan hydroxylase; Circadian; Serotonin; Retina; Light; Dopamine; *Xenopus* (Green, C.B. (677) 283)

Suprachiasmatic nucleus; Circadian rhythm; Potassium conductance; H-current (Jiang, Z.-G. (687) 125)

Temperature; Alertness; Performance; Sleep; Circadian rhythm; Phase-shifting (Deacon, S. (688) 77)

Circadian rhythm; Pineal gland (Akasaka, K. (692) 283)

Circadian rhythm; Pineal gland; Cell culture (Murakami, N. (693) 1)

Hydroxyindole-*O*-methyltransferase; Pineal; Retina; Y79 retinoblastoma; Tissue-specific (Bernard, M. (696) 37)

Melittin
Phospholipase A_2; Neurotoxicity; Neuronal culture; $[Ca^{2+}]_i$; Seizure; Rat (Clapp, L.E. (693) 101)

Membrane
Nitric oxide synthase; NADPH-diaphorase; Retina; Knock-out mice; Electron microscopy; BSPT-formazan (Darius, S. (690) 231)

Extra-genomic; γ-Aminobutyric acid; Steroid hormone; Hippocampus; Perforant pathway; Progesterone (Frye, C.A. (696) 113)

Alzheimer's disease; Brain; Lipid; Ethanolamine plasmalogen (Ginsberg, L. (698) 223)

Membrane capacitance measurement
Exocytosis; Rat chromaffin cell; Ca^{2+} current; Ca^{2+} channel antagonist (Kim, S.J. (675) 289)

Membrane current
Trisomy 16 mouse; Down's syndrome; Septum; Neuron culture; Action potential (Acevedo, L.D. (701) 89)

Membrane fluidity
β-Amyloid; Calcium signalling; Neurotoxicity (Müller, W.E. (674) 133)

Memory
Amygdala; Lateralization; Lidocaine; Inhibitory avoidance; Learning; Retrieval (Coleman-Mesches, K. (670) 75)

Closed-head injury; Edema; HU-211; Rat (Shohami, E. (674) 55)

Amygdala; γ-Aminobutyric acid; Retrieval; Lateralization; Inhibitory avoidance; Learning (Coleman-Mesches, K. (676) 183)

Amygdala; Basolateral complex; Escape training; Inhibitory avoidance; Learning; Retention (Parent, M.B. (676) 235)

γ-Aminobutyric acid; Baclofen; Hippocampus; CGP-35348; D-APV; Plasticity; *N*-Methyl-D-amphetamine (Brucato, F.H. (677) 326)

Methandrostenolone; Anabolic steroid; Morris water maze; Hippocampus; Corticosterone; Testosterone (Clark, A.S. (679) 64)

β-Amyloid; Behavior; Conditional discrimination (Cleary, J. (682) 69)

Synapse; De novo synthesis; Chicks (Sojka, M. (684) 209)

Glucose; Scopolamine; Cholinergic septo-hippocampal system; High-affinity choline uptake; Alzheimer's disease (Micheau, J. (685) 99)

BIBN 99; Cholinergic; M2 antagonist; Morris water maze; Muscarinic; Rat; Traumatic brain injury; Treatment (Pike, B.R. (686) 37)

Alcohol; Body temperature; LTP; θ-Pattern (Givens, B. (688) 27)

Pregnenolone sulfate; Ethylestrenol; Anabolic steroid; Passive avoidance response (Isaacson, R.L. (689) 79)

Learning; Recognition; Priming; Rat; Recognition; Anesthesia; Consciousness; Rhinal cortex; Single unit; Visual; Hippocampal (Zhu, X.O. (689) 101)

Conditioned taste aversion; Chronic i.c.v. drug administration; Choline acetyltransferase; Nerve growth factor; Alzheimer's disease; Rat; Conditioning (Lipinski, W.J. (692) 143)

Atropine; Glucose; Sleep; Spontaneous alternation; Paradoxical sleep (Stone, W.S. (694) 133)

Nitric oxide; Learning; Hemicholinium-3; Choline acetyltransferase (Tobin, J.R. (694) 177)

μ-Opioid receptor agonist; DAMGO; Local cerebral glucose utilization; Brain site; Limbic epilepsy; Mood; Antinociception (Fabian, I. (697) 205)

Kindling; Long-term potentiation; Kindling-induced potentiation; Plasticity; Neocortex; Corpus callosum (Racine, R.J. (702) 77)

Long-term potentiation; Plasticity; Neocortex; Corpus callosum (Racine, R.J. (702) 87)

Memory deficit
Passive avoidance; Bicuculline; Picrotoxin; Flumazenil; Leu-enkephalin (Dubrovina, N.I. (670) 347)

Meninges
Parathyroid hormone-related protein; Astrocyte; Glial limiting membrane (Struckhoff, G. (676) 1)

Vasopressin; Culture; Hypothalamus; Pituitary; Regeneration; Hypophysectomy (Ishikawa, K. (677) 20)

Insulin-like growth factor-II; Insulin-like growth factor binding protein-2; Pia mater; Conditioned medium (Ishikawa, K. (697) 122)

Menthol
Adaptation; Temperature; Cold receptor; Electrophysiological recording; Trigeminal nerve (Lundy Jr., R.F. (676) 169)

Medicinal leech; Glial cell; Retzius neurone; Intracellular Ca^{2+}; Extracellular K^+; Ca^{2+} channel (Hochstrate, P. (696) 231)

MePD
Prenatal stress; Medial amygdala; MePV; Sexually dimorphic nucleus; Sexual differentiation; Ejaculatory behavior; Rodent; Morphometry (Kerchner, M. (672) 251)

MePV
Prenatal stress; Medial amygdala; MePD; Sexually dimorphic nucleus; Sexual differentiation; Ejaculatory behavior; Rodent; Morphometry (Kerchner, M. (672) 251)

Mesencephalic cell
Diethyldithiocarbamate; Glutamate; *N*-Methyl-D-aspartate receptor; Dizocilpine; Dopamine uptake (Vaglini, F. (674) 127)

Mesencephalon
Anterior pretectal nucleus; Pretectum; Diencephalon; Thalamus; Antinociception; *Phaseolus vulgaris* leucoagglutinin (Terenzi, M.G. (701) 183)

Mesoaccumbens dopaminergic system
Mu-opioid; Kappa-opioid; Delta-opioid; DAMGO; U-50,488H; DPDPE; Amphetamine; VTA; Feeding; Drinking; Hyperdipsia; Gnawing; Activity; VTA (Badiani, A. (670) 264)

Mesolimbic
Locomotion; Nicotine; Ventral tegmentum; Dopamine; Rat (Museo, E. (670) 257)

Catecholamine; Striatum; Ultrastructure; Immunocytochemistry (Van Bockstaele, E.J. (682) 215)

Basal ganglia; Substantia nigra; Dopamine; Tyrosine hydroxylase; Nigrostriatal (Tan, Y. (689) 151)

Mesolimbic dopamine system
Dopamine receptor; Amphetamine-induced sensitization; Prenatal stress; Glucocorticoids (Henry, C. (685) 179)

Metabolic fuel
Area postrema; Estrous cycle; Glucoprivation; Nucleus of the solitary tract; 2-Deoxy-D-glucose (Schneider, J.E. (698) 107)

Metabolic rate
Intracerebroventricular infusion; Bird; Brain; Acute cold exposure (Montaron, A. (702) 49)

Metabolism
Brain; Flavin-containing monooxygenase; Neuroleptic; Antidepressant; Monooxygenase; Human brain (Bhamre, S. (672) 276)

Glycogen phosphorylase; Serotonin; Astrocyte; 3,4-Methylenedioxymethamphetamine; Glycogen (Poblete, J.C. (680) 9)

Ascorbic acid; Free radical; Glutathione; Ischemia; Turtle; Rat; Temperature (Pérez-Pinzón, M.A. (705) 45)

Metabotropic glutamate receptor
MCPG; Epilepsy; 4-Aminopyridine; Amygdala; Ictal; Interictal; mGluR (Arvanov, V.L. (669) 140)

APB; L-2-Amino-4-phosphonobutyric acid; ON bipolar cell; Electroretinogram; Whole cell recording (Thoreson, W.B. (676) 93)

(1*S*,3*R*)-1,3-Aminocyclopentane-3-dicarboxylic acid; *N*-Methyl-D-aspartate; LTP; Hippocampus; CA1–CA3; Synaptic transmission (Collins, D.R. (684) 165)

Excitatory amino acid; Magnesium; Autoreceptor; Positive feedback; Spinal cord (Gotani, H. (689) 281)

Hippocampus; Long-term potentiation; (*RS*)-α-Methyl-4-carboxyphenylglycine; *trans*-1-Amino-cyclopentyl-1,3-dicarboxylate; Molecular switch (Thomas, M.J. (695) 45)

Presynaptic inhibition; Presynaptic calcium; Transmitter release; Potassium channel; Hippocampus (Yoshino, M. (695) 179)

Phenylglycine; α-Methyl-4-carboxyphenylglycine; Morbidity; Fluid percussion; Traumatic brain injury; Rat (Gong, Q.-Z. (700) 299)

Carbon monoxide; Hemoxygenase; Formalin test; Zinc protoporphyrin-IX (Yamamoto, T. (704) 256)

Hippocampus; Excitatory transmission; Inhibitory transmission; Presynaptic modulation (Ohno-Shosaku, T. (705) 337)

Metabotropic receptor
Morphine; Opiate withdrawal; Locus coeruleus; Glutamate; Desensitization; Protein kinase C; Protein phosphatase (Kogan, J.H. (689) 111)

Metallothionein
Cadmium chloride; Rat; Astrocyte; D-Aspartate (Rising, L. (678) 91)

Metallothionein promoter
c-*fos* gene; Exogenous control; NRK cell; Nf-1 cell; Transplantation; Angiogenesis; Neovascularization; Gene therapy (Asakuno, K. (702) 23)

Met-enkephalin
β-Endorphin; Cerebrospinal fluid; Analgesia; Arcuate nucleus; High performance liquid chromatography; Periaqueductal gray; Opioid (Bach, F.W. (690) 167)

Methamphetamine
Methylazoxymethanol; Microencephaly; Hyperactivity; Dopamine receptor (Watanabe, M. (670) 173)

Circadian rhythm; Haloperidol; Suprachiasmatic nucleus; Locomotor activity; Phase–response curve (Honma, S. (674) 283)

Transgenic mouse; Free radical; Serotonin uptake site; Superoxide dismutase (Hirata, H. (677) 345)

Nitric oxide; Nitric oxide synthase inhibitor; *L*-NAME (Abekawa, T. (679) 200)

Dopamine; Nitric oxide; Microdialysis (Bowyer, J.F. (699) 62)

Cortex; Striatum; Glutamate; Dopamine; Microdialysis (Stephans, S.E. (700) 99)

Methandrostenolone
Anabolic steroid; Morris water maze; Hippocampus; Corticosterone; Testosterone; Memory (Clark, A.S. (679) 64)

L-[^{35}S]Methionine
Acute and chronic stress; Immobilization; Brain protein synthesis; Autoradiography; Rat (Giaume, M. (675) 121)

Methionine-enkephalin
Endorphin; Respiration; Hypoxia; Microdialysis; Newborn; Swine; Development (Yan, S. (687) 217)

Methiothepin
Acetylcholine release; Atropine; CP 93129; Fimbria-fornix; Hippocampus; Mecamylamine; 2-methyl-Serotonin; Oxotremorine; Septal graft (Cassel, J.-C. (704) 153)

Methoctramine
Intracerebroventricular; Mean arterial pressure; Heart rate; Pirenzepine; 4-DAMP; Atropine; Anesthesia (Ally, A. (677) 268)

3-Methoxy-4-hydroxyphenylglycol
Head trauma; Catecholamine; MHPG; Contusion; Sensorimotor cortex; Somatosensory cortex (Levin, B.E. (674) 307)

5-Methoxytryptophol
Melatonin; Pineal organ; Human; Photoperiod; Season; Circadian rhythm (Hofman, M.A. (671) 254)

2-Methylaminochroman
21-Aminosteroid; Cyanide; Iron toxicity; Primary neuronal culture; Dizocilpine; Neuroprotection (Müller, U. (678) 265)

***N*-Methyl aspartic acid**
Excitotoxin; Calcification; Basal forebrain; Cholinergic; Alzheimer's disease; Down's syndrome (Stewart, G.R. (695) 81)

Methylazoxymethanol
Microencephaly; Hyperactivity; Methamphetamine; Dopamine receptor (Watanabe, M. (670) 173)

Methyl bromide
Microvillar cell; Toxic insult; Nickel regeneration; Olfactory epithelium; Electron microscopy (Miller, M.L. (669) 1)

α-Methyl-4-carboxyphenylglycine
Metabotropic glutamate receptor; Phenylglycine; Morbidity; Fluid percussion; Traumatic brain injury; Rat (Gong, Q.-Z. (700) 299)

(*RS*)-α-Methyl-4-carboxyphenylglycine
Hippocampus; Long-term potentiation; Metabotropic glutamate receptor; *trans*-1-Amino-cyclopentyl-1,3-dicarboxylate; Molecular switch (Thomas, M.J. (695) 45)

***N*-Methyl-D-amphetamine**
γ-Aminobutyric acid; Baclofen; Hippocampus; Memory; CGP-35348; D-APV; Plasticity (Brucato, F.H. (677) 326)

Neurosteroid; Long-term potentiation; Ethanol; Dehydroepiandrosterone sulfate; $GABA_A$; AMPA (Randall, R.D. (701) 238)

***N*-Methyl-D-aspartate**
Ethanol; Hippocampus; Withdrawal; CGP39551; Magnesium; Field potential (Ripley, T.L. (699) 1)

Basal ganglia; Cytochrome oxidase; Subthalamic nucleus; Succinate dehydrogenase (Blandini, F. (669) 59)

Calcium; 6-Cyano-7-nitroquinoxaline-2,3-dione; Dizocilpine; Neurosteroid; Nimodipine; Pregnenolone sulfate; Spermine (Fahey, J.M. (669) 183)

Glutamate; Tetrodotoxin; Excitotoxicity; Synaptic transmission; γ-Aminobutyric acid (Yoon, K.-W. (669) 320)

Neurotoxicity; AIDS; Hydroxamate (Lockhart, B.P. (670) 313)

MK-801; Nociception; Sensitization; Flexor reflex; Plasticity (Xu, X.-J. (670) 342)

Phencyclidine; MK-801; γ-Aminobutyric acid; Striatum; Microdialysis (Hondo, H. (671) 54)

Human neocortical slice; Excitatory amino acid; α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid; Extracellular calcium concentration; Cortical field potential (Lücke, A. (671) 222)

Morphine; MK-801; Haloperidol; Dependence; Withdrawal (Kreeger, J.S. (672) 83)

Delayed neuronal injury; Glutamate; CA1; Hippocampus; Slice (Wallis, R.A. (674) 75)

Ethanol; Rat hippocampus; Alcohol withdrawal; Excitotoxicity (Davidson, M. (674) 91)

Sigma site; Kainate; Neurotoxicity; Hypoxia; Kappa opioid (Lockhart, B.P. (675) 110)

Neurotoxicity; Depolarization; Glutamate; Hippocampus; Ca^{2+}; Cl^- (Takahashi, M. (675) 249)

Olfaction; Sensory deprivation; Neural plasticity; Olfactory deprivation (Wilson, D.A. (677) 238)

Sensitization; Apomorphine; 6-Hydroxydopamine; Glutamate (Gancher, S. (682) 63)

Connexin-43; Astrocyte; Gap junction; Immunohistochemistry; Kainic acid; Transblot, in situ (Sawchuk, M.A. (683) 153)

Androgen; Castration; CA1; Hippocampus; MK801; Testosterone; Autoradiography (Kus, L. (683) 270)

(1*S*,3*R*)-1,3-Aminocyclopentane-3-dicarboxylic acid; Metabotropic glutamate receptor; LTP; Hippocampus; CA1–CA3; Synaptic transmission (Collins, D.R. (684) 165)

Excitotoxicity; Glutamate; Indo-1; Cell culture; Confocal microscopy (Limbrick Jr., D.D. (690) 145)

β-Endorphin; Cell culture; Hypothalamus; Cyclic AMP; Glutamate (Yang, Z. (692) 129)

mRNA stability; Posttranscriptional control; Glutamate; Hippocampal neuron (Jakoi, E.R. (693) 124)

Antisense oligodeoxynucleotide; Neuroprotection; Traumatic brain injury; Mortality; Behavioral recovery; Astrocytic reaction (Sun, F.-Y. (693) 163)

Hypoxia; Dopamine; Voltammetry (Wang, Y. (693) 233)

Dopamine-release; Cadmium; Striatum; Kainate; Amperometry, in vivo; Superfusion, in vivo; Rat (Olivier, V. (695) 1)

Ethanol; Nomifensine; Dopamine release; Uptake; Striatum; Electrochemistry, in vivo (Lin, A.M.-Y. (696) 15)

Focal cerebral ischemia; Glutamate; Microdialysis; Voltage-dependent sodium channel (Chen, J. (699) 121)

γ-Aminobutyric acid; Glutamate; Cerebral cortex; Development; Rat; Evoked potential; Voltage clamp (Metherate, R. (699) 221)

Dopamine; Nitric oxide; Nucleus accumbens; N^G-Nitro-L-arginine; Microdialysis (Ohno, M. (699) 332)

Dopamine; 6-Hydroxydopamine lesion; Basal ganglia; Motor function; On-off phenomenon; Glutamate antagonist; MK-801 (Papa, S.M. (701) 13)

Adenosine; Deoxycoformycin; Dilazep; Focused microwave sacrifice; Striatum; Microinjection (Delaney, S.M. (702) 72)

Carbamazepine; Apoptosis; DNA fragmentation; Cerebellar granule cell; Aurintricarboxylic acid; Cycloheximide (Gao, X.-M. (703) 63)

Adenosine; Hypercapnia; Hypoxia; Nitric oxide; Pial arteriole; Tetrodotoxin (Pelligrino, D.A. (704) 61)

Excitotoxicity; Neurodegeneration; Arcuate nucleus; Neuronal culture; Microdialysis; Amino acid (Puka-Sundvall, M. (705) 65)

Photoperiodism; Testosterone; Testes (Raitiere, M.N. (705) 159)

HIV-1; gp120; Neurotoxicity; Midbrain culture; Dopamine uptake (Bennett, B.A. (705) 168)

_N_-Methyl-D-aspartate receptor
AMPA receptor; Spinal cord; Nociception; Central hypersensitivity; Rat (Chapman, V. (703) 45)

Sigma receptor; Norepinephrine; Hippocampus; (+)Pentazocine; BD737; DuP 734 (Gonzalez-Alvear, G.M. (673) 61)

_N_-Methyl-D-aspartate and non-NMDA receptor
NBQX; CNQX; Retinal ganglion cell (Yu, W. (692) 190)

_N_-Methyl-D-aspartate antagonist
Epilepsy; Schizophrenia; Sexual maturation; Development (Sircar, R. (694) 318)

Excitatory amino acid; Dizocilpine maleate; MK-801; Cingulate cortex; Neurotoxicity; Neuropathology; Rat (Fix, A.S. (696) 194)

Temperature; Spatial navigation; Ischemia; Behavior (Green, E.J. (702) 145)

_N_-Methyl-D-aspartate receptor
Carbonic anhydrase; Mutant mouse; Acidosis; Long-term potentiation (Velíšek, L. (671) 245)

Diethyldithiocarbamate; Glutamate; Dizocilpine; Mesencephalic cell; Dopamine uptake (Vaglini, F. (674) 127)

Domestic chick; Intermediate and medial hyperstriatum ventrale; Lobus parolfactorius; Learning and memory (Steele, R.J. (674) 352)

Glutamate; Glycine; Glycine site; Ischemia; Organotypic hippocampal cultures; Acea 1021; 7-Chlorokynurenic acid; MK-801 (Newell, D.W. (675) 38)

Suicide; Depression; Glycine; Glutamate; Frontal cortex; Human (Nowak, G. (675) 157)

Prostaglandin E_2; Hyperalgesia; Spinal cord; Prostaglandin E_2 receptor (Nishihara, I. (677) 138)

Flexion reflex; MK-801; Ketamine; C-afferent; Capsaicin (Anderson, M.F. (678) 140)

Apneusis; Control of respiration; Dizocilpine; Anesthetics; Mice; Rodent (Cassus-Soulanis, S. (679) 25)

Nitric oxide; Seizure; Pilocarpine; Kainic acid; Nitro-L-arginine (Maggio, R. (679) 184)

Morphine withdrawal; Naloxone; Nitric oxide; Spinal cord; Blood pressure; Heart rate; Behavior (Buccafusco, J.J. (679) 189)

Adrenal steroid; Corticosterone; Type I; Type II receptors; Stress; Dynorphin mRNA; AMPA receptor; Dentate gyrus; Mossy fiber; Stratum lucidum (Watanabe, Y. (680) 217)

Darting behavior; Polyamine; Neuromodulator; Rat prefrontal cortex; [^{3}H]MK-801; Radioligand binding (Savelli, J.E. (682) 41)

Odor preference; Estrous female odor; Neurosteroid; Pregnenolone sulfate; Male sexual interest; Olfactory response; Anxiety (Kavaliers, M. (682) 222)

Adenosine; Brain microdialysis; Striatum; Aging; Adenosine kinase; Adenosine deaminase (Pazzagli, M. (684) 103)

σ site; (+)-SKF 10,047; (−)-SKF 10,047; Phencyclidine (PCP) site; MK-801; Hippocampus; Working memory (Ohno, M. (684) 237)

Insulin-like growth factor-I; Retina; Glia; Proliferation (Ikeda, T. (686) 87)

Closed head injury; Fos immunohistochemistry; Lactation; Rat (Woodside, B. (690) 48)

GnRH neurons; Gene expression; *N*-Methyl-D,L-aspartate (Abbud, R. (690) 117)

Spreading depression; Cerebral cortex; Ketamine; AP5; MK-801 (Rashidy-Pour, A. (693) 64)

Glutamate neurotoxicity; ATP content; Kainate receptor; Energetic stress (Marcaida, G. (695) 146)

Nucleus basalis; Glutamate receptor subtype; AMPA receptor; Kainate receptor; Autoradiography; γ-Aminobutyric acid receptor; Benzodiazepine receptor; Image analysis (Roßner, S. (696) 165)

β-Cyclazocine; Neuroprotection; Fura-2; Single-channel recording; Rate constant (Sawyer, D.C. (698) 30)

Chick forebrain; Learning; Synaptic plasticity (Bradley, P.M. (699) 103)

Medial vestibular nucleus; Long term depression; GABA receptor; High frequency stimulation; Field potential (Grassi, S. (699) 183)

Vestibular compensation; Neural plasticity; Decompensation; Nystagmus; Immunohistochemistry (Kitahara, T. (700) 182)

Glutamate receptor; Neurohypophysis; Fura-2; Rat (Giovannucci, D.R. (702) 246)

Spinal cord; Frog; Serotonin; 5-HT_3 receptor; Excitatory amino acid (Holohean, A.M. (704) 184)

Felbamate; Strychnine-insensitive glycine antagonist; Excitotoxicity; Neuroprotection; Calcium; Cortical neuron (Kanthasamy, A.G. (705) 97)

_N_-Methyl-D-aspartate receptor-channel complex
Hippocampus; Selective vulnerability; Global cerebral ischemia; Norepinephrine release; Voltage-dependent calcium channel; Nitrendipine (Hurt, K.J. (673) 226)

_N_-Methyl-D-aspartate receptor complex
Polyamine recognition domain; Agonist–antagonist; bis-(3-Aminopropyl)nonanediamine; Multiplicity (Yoneda, Y. (679) 15)

N-Methyl-D-aspartic acid
β-Amyloid; Alzheimer's disease; Neurotoxicity; Nitric oxide; Calcium (Le, W.-D. (686) 49)

Dopamine; Glutamate; Opiate; Excitatory amino acid (Livezey, R.T. (692) 93)

N-Methyl-D,L-aspartate
GnRH neurons; *N*-Methyl-D-aspartate receptor; Gene expression (Abbud, R. (690) 117)

3,4-Methylenedioxyamphetamine
Serotonin release; Culture; Fenfluramine; *p*-Chloroamphetamine; Raphe; Nimodipine; Conotoxin; Fluoxetine (Wichems, C.H. (695) 10)

3,4-Methylenedioxymethamphetamine
Glycogen phosphorylase; Serotonin; Astrocyte; Glycogen; Metabolism (Poblete, J.C. (680) 9)

Methyllycaconitine
Rat hippocampus; Neuronal nicotinic acetylcholine receptor; Immunocytochemistry; Up-regulation; Nicotine; [^{3}H]QNB (Barrantes, G.E. (672) 228)

Methylmercury
Rat; Astrocyte; Aspartate; Glutathione; Glutamate (Aschner, M. (689) 1)

Neurotoxicity; Postnatal development; Cerebral cortex; Hippocampus; Rat (Wakabayashi, K. (705) 267)

Methylnaloxonium
Muscle rigidity; Dexmedetomidine; Ketanserin; α Adrenergic receptor; Alfentanil; Electromyography; ST91 (Weinger, M.B. (669) 10)

α-Methyl norepinephrine
Morphine; Adrenergic neuron; Ventrolateral medulla; c-fos; Clonidine (Baraban, S.C. (676) 245)

1-Methyl-4-phenylpyridinium ion
6-Hydroxydopamine; Microdialysis; Striatum; Rat; Parkinsonism (Espino, A. (695) 151)

***N*-Methyl-4-phenylpyridinium ion**
Neurodegeneration; Parkinson's disease; Dopamine; Substantia nigra; Rat; Carboline (Neafsey, E.J. (675) 279)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine
Dopamine; Mouse; GM1 ganglioside; Fibroblast growth factor; Epidermal growth factor (Schneider, J.S. (674) 260)

Parkinson's disease; Basal ganglia; Dyskinesia; $GABA_A$ receptor; Dopamine receptor; Globus Pallidus (Calon, F. (680) 43)

Methylprednisolone
Spinal cord injury; Lesion site; Secondary injury; Inflammatory reaction; Macrophage invation; Central nervous system (Bartholdi, D. (672) 177)

Methylxanthine
Hyperoxia; Hyperbaric oxygen; Carbon dioxide; Adenosine receptor; Seizure (Bitterman, N. (696) 250)

Methysergide
NPY; 5-Hydroxytryptamine; Hypothalamus; Rat (Dryden, S. (699) 12)

MHCII
Astrogliosis; Glial fibrillary acidic protein; Cytokine; Ciliary neurotrophic factor; Tumor necrosis factor-α; ED1; Microglia (Kahn, M.A. (685) 55)

MHPG
Head trauma; Catecholamine; 3-Methoxy-4-hydroxyphenylglycol; Contusion; Sensorimotor cortex; Somatosensory cortex (Levin, B.E. (674) 307)

Mice
Apneusis; Control of respiration; *N*-Methyl-D-aspartate receptor; Dizocilpine; Anesthetics; Rodent (Cassus-Soulanis, S. (679) 25)

Microcirculation
Nerve regeneration; Macrophage; Degeneration; Schwann cell; Nerve graft; Myelin (Dahlin, L.B. (679) 274)

Rat; Fluorescein isothiocyanate albumin; Pial venule; L-NMMA; L-NAME (Mayhan, W.G. (686) 99)

Microcolumn
Interneuron; Cortical circuitry; Symmetric synapse (Del Río, M.R. (690) 133)

Microdialysis
γ-Aminobutyric acid; Anti-epileptic drug; Valproic acid; γ-Vinyl-GABA; Vigabatrin (Sayin, U. (669) 67)

Noradrenaline; Paraventricular nucleus; Restraint; Tail-pinch; Desensitization; Stress; Adaptation (Shibasaki, T. (670) 169)

Phencyclidine; MK-801; γ-Aminobutyric acid; *N*-Methyl-D-aspartate; Striatum (Hondo, H. (671) 54)

Insulin; Paraventricular nucleus; Ventromedial hypothalamus; Feeding behavior; Satiety (Orosco, M. (671) 149)

Hydrogen peroxide; Ischemia; Striatum (Hyslop, P.A. (671) 181)

Sleep–waking cycle; Acetylcholine; Electroencephalogram; Hippocampus; Theta wave; Cat (Marrosu, F. (671) 329)

Glutamate; Hippocampus; Kainic acid; Nitric oxide; Rat; Seizure (Rigaud-Monnet, A.-S. (673) 297)

Tetanus toxin; 5-HT; DA (Britton, P. (673) 331)

Concussion; Ionic flux; Lactate; Excitatory amino acid; Glucose metabolism; Glycolysis (Kawamata, T. (674) 196)

Hippocampus; Norepinephrine release; α_2-Adrenoceptor subtype; ARC 239; BRL 44408; Receptor binding (Kiss, J.P. (674) 238)

Masculine sexual behavior; Sexual exhaustion; Medial preoptic area; Dopamine; Dihydroxyphenylacetic acid; Homovanillic acid; 5-Hydroxyindoleacetic acid (Mas, M. (675) 13)

Dopamine; Nucleus accumbens; Stress; Footshock (Kalivas, P.W. (675) 325)

Taste; Acetylcholine; Insular cortex; Quinine; Taste aversion; Rat (Shimura, T. (679) 221)

Oxytocin; Circadian rhythm; Supraoptic; Paraventricular (Kalsbeek, A. (682) 75)

Serotonin; Stressor; Striatum; Hippocampus; Cortex; Amygdala; Septum (Kirby, L.G. (682) 189)

Aspartate; Cocaine; Glutamate; Nucleus accumbens; Stereotypy (Smith, J.A. (683) 264)

Discrimination learning; Hippocampus; Septum; Acetylcholine; Dopamine; Dual probe; Rat (Yamamuro, Y. (684) 1)

Substantia nigra; γ-Aminobutyric acid; Electrical stimulation; Internal capsule (Biggs, C.S. (684) 172)

Excitotoxicity; Glutamate; Neurotoxicity; Malonate; γ-Aminobutyric acid (Messam, C.A. (684) 221)

d-Amphetamine; Dopamine; 6-Hydroxydopamine; Locomotor activity; Neostriatum; Schizophrenia; Stress (King, D. (685) 117)

Endorphin; Methionine-enkephalin; Respiration; Hypoxia; Newborn; Swine; Development (Yan, S. (687) 217)

Dopamine; CCK receptor (Hamilton, M.E. (688) 134)

CTA; Dopamine (Mark, G.P. (688) 184)

Noradrenaline; Hypothalamus; Paraventricular nucleus; Neuropeptide Y; Stress; Opioid system (Shibasaki, T. (688) 189)

Dihydroxyphenylglycol; Dihydroxyphenylacetic acid (Pacak, K. (688) 242)

Dopamine; Nucleus accumbens; Cholecystokinin; Spontaneously hypertensive rat (Kirouac, G.J. (689) 245)

ATP; P_{2Y} purinoceptor; Dopamine; Striatum; Ion channel (Zhang, Y.-X. (691) 205)

Cerebral ischemia; Hippocampus; Platelet activating factor; Thromboxane A_2 (Pettigrew, L.C. (691) 243)

Dopamine; Sexual behavior; Medial preoptic area; Male rat; CA column (Sato, Y. (692) 66)

Calcium channel; ω-Conopeptide MVIIC; Conopeptide; Brain ischemia; Hypothermia; Excitatory amino acid; Rabbit (Wu, G. (692) 118)

5-HT_4 receptor; GR-113808; Serotonin; Dopamine; Striatum; Substantia nigra; Nucleus accumbens (Pozzi, L. (692) 265)

Dopamine; Sex; Lordosis; Female rat; Estrogen; Progesterone (Pfaus, J.G. (693) 21)

Morphine; Analgesia; Spinal cord; Dorsal raphe; Hypothalamus; Serotonin (Matos, F.F. (693) 187)

Vagus; Medulla oblongata; Feeding; Raphe (Mohammed, J.R. (695) 100)

1-Methyl-4-phenylpyridinium ion; 6-Hydroxydopamine; Striatum; Rat; Parkinsonism (Espino, A. (695) 151)

Citalopram; Chronic treatment; Dorsal hippocampus; Serotonin; 5-HT_{1A} receptor; Terminal 5-HT autoreceptor (Invernizzi, R. (696) 62)

Conditioned emotional response; Glutamate; γ-Aminobutyric acid; Nucleus accumbens (Saulskaya, N. (698) 114)

(±)-1-(2,5-Dimethoxy-4-iodophenyl)-aminopropane; 5-HT_2 receptor; Amphetamine; Apomorphine; Dopamine; D_2 autoreceptor; Rat (Ichikawa, J. (698) 204)

L-DOPA; Parkinson's disease; ACh release; 6-Hydroxydopamine; Supersensitization (Ueda, H. (698) 213)

Cerebral metabolism; Cerebral circulation; Glutamate; Glutathione; High performance liquid chromatography (Yang, C.-S. (698) 237)

Dopamine; Methamphetamine; Nitric oxide (Bowyer, J.F. (699) 62)

Spreading depression; Halothane; α-Chloralose; Glutamate; Potassium (Saito, R. (699) 109)

Focal cerebral ischemia; *N*-Methyl-D-aspartate; Glutamate; Voltage-dependent sodium channel (Chen, J. (699) 121)

Rat; Spinal cord stimulation; Periaqueductal gray matter; γ-Aminobutyric acid; 5-Hydroxytryptamine; Glutamate; Substance P (Stiller, C.-O. (699) 231)

N-Methyl-D-aspartate; Dopamine; Nitric oxide; Nucleus accumbens; N^G-Nitro-L-arginine (Ohno, M. (699) 332)

Methamphetamine; Cortex; Striatum; Glutamate; Dopamine (Stephans, S.E. (700) 99)

Gerbil; Global ischemia; Neuroprotection; Histology (Shuaib, A. (702) 199)

Semiquantitative histology; Repeated perfusion (De Lange, E.C.M. (702) 261)

Haloperidol; Caudate putamen; Cortex; Dopamine; Neurotensin (See, R.E. (704) 202)

Excitotoxicity; *N*-Methyl-D-aspartate; Neurodegeneration; Arcuate nucleus; Neuronal culture; Amino acid (Puka-Sundvall, M. (705) 65)

Microdialysis, in vivo
Dihydroxyphenylacetic acid; 5-Hydroxyindoleacetic acid; Homovanillic acid; Hypothalamic paraventricular nucleus; Neuropeptide Y; Noradrenaline; Rat (Pavia, J.M. (690) 108)

Microdissection
Pituitary adenylate cyclase activating polypeptide; Human brain nuclei; Radioimmunoassay (Palkovits, M. (699) 116)

Microencephaly
Methylazoxymethanol; Hyperactivity; Methamphetamine; Dopamine receptor (Watanabe, M. (670) 173)

Microglia
Astrogliosis; Glial fibrillary acidic protein; Cytokine; Ciliary neurotrophic factor; Tumor necrosis factor-α; ED1; MHCII (Kahn, M.A. (685) 55)

Astrocyte; Arachidonic acid; Eicosanoid; Prostaglandin; Leukotriene (Matsuo, M. (685) 201)

Astrocyte; Cerebellum; Hippocampus; Cyclic GMP; Nitric oxide; Noradrenaline; Glutamate (Agulló, L. (686) 160)

Morphine; Opioid; Macrophage; Brain cell culture; Astrocyte; C6 glioma; Kupffer cell (Dobrenis, K. (686) 239)

Aggregating brain cell culture; Early development; Trimethyltin (TMT); Neurotoxicity; Synaptophysin; Synapsin I; GAP-43 (Monnet-Tschudi, F. (690) 8)

Alzheimer's disease; Nitric oxide; β-Amyloid; IFN-γ (Goodwin, J.L. (692) 207)

Patch-clamp; Cationic and anionic channel current (McLarnon, J.G. (693) 8)

Cerebral ischemia; Ischemic tolerance; Macrophage; Immunohistochemistry; Hippocampus; Rat (Kato, H. (694) 85)

Neuroglia; Nucleoside diphosphatase; Histochemistry; Hypomyelination; Mutant (Vela, J.M. (694) 287)

Lipopolysaccharide; Astrocyte; 6-hydroxydopamine; Tyrosine hydroxylase; Dopamine; Parkinson's disease; Substantia nigra (Bronstein, D.M. (704) 112)

Fish; Regeneration; Tomato lectin; Visual pathway (Velasco, A. (705) 315)

β2-Microglobulin
Alzheimer's disease; Amylin; Calcium; Fura-2; Hippocampus; Prion protein; 2,7-Dichlorofluorescin; Vitamin E (Mattson, M.P. (676) 219)

Microgyria
Discrimination learning; Ectopia; DBA; Lashley learning; Neocortex; Brain damage (Rosen, G.D. (681) 177)

Microinjection
Intracraneal temperature; Dopamine; Lateral hypothalamus; Sulpiride; Dopamine D2 receptor; Brain self-stimulation; Neuroleptic malignant syndrome (Parada, M.A. (674) 117)

Brain mapping; Hypothalamus; Thalamus; Paraventricular nucleus; Nociception; Anorexia; Fever (Sellami, S. (694) 69)

PACAP; DA; Lateral hypothalamus; Sulpride; D_2 receptor; Drinking; Osmolarity; Blood pressure (Puig de Parada, M. (696) 254)

Adenosine; *N*-Methyl-D-aspartate; Deoxycoformycin; Dilazep; Focused microwave sacrifice; Striatum (Delaney, S.M. (702) 72)

Microiontophoresis
Purkinje cell; γ-Aminobutyric acid (GABA); Alcohol; Ro15-4513; Imidazobenzodiazepine (Lee, R.-S. (687) 1)

Purkinje cell; γ-Aminobutyric acid; Norepinephrine; Alcohol; Potentiation; Modulation (Lee, R.-S. (687) 12)

Active sleep; Muscle atonia; Ponto-geniculo-occipital; α-Chloralose; Cat (López-Rodríguez, F. (699) 201)

Single cell recording; Descending inhibition; Thermal nociception; Monoamine; α-Adrenoreceptor; Caudal trigeminal nucleus; Medullary dorsal horn (Cahusac, P.M.B. (700) 70)

Microphotometry
Substance P; Thiamine deficiency; Antinociceptive effect; Immunohistochemical estimation; Spinal cord (Tadano, T. (696) 21)

Microscopy
Goldfish, brain; Tyrosine hydroxylase; Dopaminergic; Neuron; MPTP; Parkinson's disease; Animal model; Immunohistochemistry; Ultrastructure (Goping, G. (687) 35)

Microsome
Ryanodine receptor; Sphingosylphosphorylcholine; Calcium release; IP_3 receptor (Dettbarn, C. (669) 79)

Microtransplantation
Cool storage; Hibernation medium; Dopamine neuron; Parkinson's disease (Nikkhah, G. (687) 22)

Microtubule
Colchicine; Lysosome; Dendrite; Neuronal transport; Hypoglossal nucleus; Fluorescent microsphere (Beske, O. (669) 125)

Nerve; Protein transport; Cold block; Transport reversal; Taxol (Smith, R.S. (672) 205)

Alzheimer's disease; Calcium; Colchicine; Excitototoxicity; Fura-2; Glutamate; Taxol (Furukawa, K. (689) 141)

Hypothermia; Injury; Varicosity; Cell culture; Transport (Emery, D.G. (692) 161)

Microtubule-associated protein
Cytoplasmic dynein; Kinesin; Ischemia; Microtubule-based motor; Mitochondrion (Aoki, M. (669) 189)

Tubulin; Actin-related proteins; *Drosophila* (Srinivasan, S. (701) 39)

Plasticity; Monocular deprivation; Visual cortex; Cytoskeleton; Oc1; Development, immunohistochemistry (Werner, D. (701) 55)

Microtubule-based motor
Cytoplasmic dynein; Kinesin; Ischemia; Microtubule-associated protein; Mitochondrion (Aoki, M. (669) 189)

Microtubule protein
Hippocampus; Cerebral cortex; Cerebellum (Alcantara, A.A. (701) 47)

Microvessel
Blood–brain barrier; Endothelium; Tight junction; CNS inflammation (Biegel, D. (692) 183)

Nitric oxide; Nitric oxide synthase; Calcitonin gene-related peptide; Hippocampus; Vasodilatation (Fergus, A. (694) 78)

Microvillar cell
Toxic insult; Methyl bromide; Nickel regeneration; Olfactory epithelium; Electron microscopy (Miller, M.L. (669) 1)

Micturition
Sexual reflex; Bladder; Defecation (Song, L. (675) 165)

Urinary bladder; Spinal cord injury; Capsaicin; Afferent pathway (Cheng, C.-L. (678) 40)

AMPA/kainate receptor; GYKI-52466; CNQX; Pontine micturition center (Matsumoto, G. (693) 246)

Midazolam
Anxiety; Benzodiazepine; Central amygdala; Basolateral amygdala; Ro 15-1788 (Pesold, C. (671) 213)

Midbrain culture
HIV-1; gp120; Neurotoxicity; *N*-Methyl-D-aspartate; Dopamine uptake (Bennett, B.A. (705) 168)

Midbrain raphe
Serotonin transporter; mRNA; Serotonin depletion; Imipramine (Linnet, K. (697) 251)

Middle cerebral artery
Cerebral ischemia; Muscarinic agonist; Acetylcholine; Behavior; Rat (Yamaguchi, T. (669) 107)

Cerebral infarction; Volume estimation; Cavalieri (Avendaño, C. (673) 83)

ICAM-1 expression; Transient (Zhang, R.-L. (682) 182)

Middle cerebral artery occlusion
Proto-oncogene; Immediate-early gene; Heat-shock; Stroke; Hybridization, in situ (Soriano, M.A. (670) 317)

Cerebral blood flow; Transient focal ischemia; Penumbra; Autoradiography; Rat (Takagi, K. (691) 160)

Middle latency auditory evoked magnetic field
Middle latency auditory evoked response; Human auditory cortex; Magnetoencephalography; Superconducting quantum interference device; Magnetic resonance imaging (Yoshiura, T. (703) 139)

Middle latency auditory evoked response
Middle latency auditory evoked magnetic field; Human auditory cortex; Magnetoencephalography; Superconducting quantum interference device; Magnetic resonance imaging (Yoshiura, T. (703) 139)

Middle-latency response
Auditory evoked potential; Scopolamine; Acetylcholine; Rat (Campbell, K.A. (702) 110)

Midline thalamus
Epinephrine; Cholera toxin subunit B; Immunohistochemistry; Phenylethanolamine *N*-methyltransferase; Behavior; Rat (Otake, K. (697) 17)

Migraine
Trigeminal ganglion; Neurogenic inflammation; Calcitonin gene-related peptide; Vasoactive intestinal peptide; Substance P; Antidromic vasodilatation (Escott, K.J. (669) 93)

Brain mapping; Brainstem; Central activation; Cardiovascular; Forebrain (Tassorelli, C. (682) 167)

Retinal spreading depression; Nitric oxide; Cyclic GMP (Ulmer, H.J. (691) 239)

Migration
Neuronatin; Development; Brain; Gene; Neuroepithelium; Proliferation; Commitment; Differentiation (Joseph, R. (690) 92)

HB-GAM; Cerebellum; Heparin-binding; Adhesion; Differentiation (Wewetzer, K. (693) 31)

Sexually dimorphic area pars compacta; Postnatal sexual differentiation; Stereology; Gerbil; Cell death (Holman, S.D. (694) 167)

Transplantation; Striatum; Astrocyte; Glial fibrillary acidic protein; Thalamus; Ventral mesencephalon (Pundt, L.L. (695) 25)

Milk-ejection reflex
Oxytocin; Vasopressin; Electrophysiology; Coexistence; Phenotype; Plasticity (Moos, F.C. (669) 309)

Mimic RT-PCR
HSP72; HSC73; Ischemia; Rat (Abe, K. (683) 251)

Mineralocorticoid receptor
Glucocorticoid receptor; Serotonin; *para*-Chloroamphetamine; Fluoxetine; Adrenalectomy (Novotney, S. (684) 19)

Miniature endplate current
Rat neuromuscular junction; Veratridine; Vesamicol; Cholinergic synaptic vesicle; *Torpedo* electroplaque (Pemberton, K.E. (671) 267)

Acetylcholine release; Synaptic vesicle exocytosis; Clostridial neurotoxin; Synaptosome; *Torpedo*; Neuromuscular junction; VAMP/synaptobrevin (Herreros, J. (699) 165)

Miniature EPSP
Calcineurin; FK506; Hippocampus; Long-term depression; Long-term potentiation (Hodgkiss, J.P. (705) 241)

Mitochondria
S100; Calcium; Hippocampus; Neurotrophic; Glucose (Barger, S.W. (677) 167)

Glutathione; Antioxidant enzyme; Astrocyte; Granule cell; Cell culture (Huang, J. (680) 16)

Mitochondrion
Cytoplasmic dynein; Kinesin; Ischemia; Microtubule-associated protein; Microtubule-based motor (Aoki, M. (669) 189)

Mitogen
Astroglia; Proliferation; Oxytocin; Vasopressin; Rat (Lucas, R.L. (681) 218)

Mitogen-activated protein
Tau; Synaptophysin; Dentate gyrus; Phosphorylation; CA1 (Torack, R.M. (669) 135)

Mitral cell
Accessory olfactory bulb; Extracellular single unit recording; Synaptic response; Glutamate antagonist (Dudley, C.A. (675) 208)

Calcium-binding protein; Calretinin; Double fluorescence labeling; Dual-peroxidase staining; Olfactory system; Tufted cell (Wouterlood, F.G. (682) 93)

Mixture
Olfactory receptor neuron; Whole cell patch clamp; Olfaction; Interaction; Transduction; Spiny lobster; Crustacean; Binding (Simon, T.W. (678) 213)

MK-801
N-Methyl-D-aspartate; Nociception; Sensitization; Flexor reflex; Plasticity (Xu, X.-J. (670) 342)

Phencyclidine; γ-Aminobutyric acid; *N*-Methyl-D-aspartate; Striatum; Microdialysis (Hondo, H. (671) 54)

N-Methyl-D-aspartate; Morphine; Haloperidol; Dependence; Withdrawal (Kreeger, J.S. (672) 83)

Cocaine; Conditioned place preference; SCH 23390; (−)-Sulpiride; DNQX; Rat (Cervo, L. (673) 242)

Glial fibrillary acidic protein; mRNA; Spreading depression; Potassium (Bonthius, D.J. (674) 314)

Glutamate; Glycine; *N*-Methyl-D-aspartate receptor; Glycine site; Ischemia; Organotypic hippocampal cultures; Acea 1021; 7-Chlorokynurenic acid (Newell, D.W. (675) 38)

Flexion reflex; *N*-methyl-D-aspartate receptor; Ketamine; C-afferent; Capsaicin (Anderson, M.F. (678) 140)

Androgen; Castration; CA1; Hippocampus; *N*-Methyl-D-aspartate; Testosterone; Autoradiography (Kus, L. (683) 270)

Calcium channel; Diltiazem; Hypoxia; Neuroprotection; Synergy (Schurr, A. (684) 233)

σ site; (+)-SKF 10,047; (−)-SKF 10,047; Phencyclidine (PCP) site; *N*-Methyl-D-aspartate receptor; Hippocampus; Working memory (Ohno, M. (684) 237)

Hypermetabolism; NBQX; Glucose utilisation; Limbic system (Patel, T.R. (686) 254)

Spreading depression; Cerebral cortex; Ketamine; AP5; *N*-Methyl-D-aspartate receptor (Rashidy-Pour, A. (693) 64)

c-*fos*; Nucleus accumbens; Amphetamine; NBQX (Dalia, A. (694) 299)

Excitatory amino acid; *N*-Methyl-D-aspartate antagonist; Dizocilpine maleate; Cingulate cortex; Neurotoxicity; Neuropathology; Rat (Fix, A.S. (696) 194)

Heat shock protein; mRNA; Hybridization, in situ; Immunohistochemistry; (±)-2-Amino-3-hydroxy-5-methyl-4-isoxazoleacetic acid (Planas, A.M. (700) 289)

Dopamine; 6-Hydroxydopamine lesion; Basal ganglia; Motor function; On-off phenomenon; Glutamate antagonist; *N*-Methyl-D-aspartate (Papa, S.M. (701) 13)

MK-801 binding
Glutamate; Brain (McGowan, J.E. (670) 283)

M-neuron
Protein synthesis; Hyperactivity; Axon; Goldfish; Plasticity (Eugenín, J. (677) 319)

Mn^{2+} influx
Ciliary ganglion cell; Fura-2 microfluorometry; Nicotine; Muscarine; Ca^{2+} channel antagonist (Sorimachi, M. (696) 67)

Mn-SOD
Manganese; Ferrous citrate; Lipid peroxidation; Neurotoxicity; Dopamine; Nigrostriatal neuron; Free radical (Sziráki, I. (698) 285)

Modafinil
Brain metabolism; Excitatory amino acid; Inositol; Creatine-phosphocreatine; ^{1}H-NMR spectroscopy (Piérard, C. (693) 251)

Modular organization
NADPH diaphorase; Nitric oxide; Synaptophysin; SNAP-25; Cerebellum; Monkey (Yan, X.X. (669) 285)

Modulation
Corticotropin-releasing hormone; Brain cell culture; CRH receptor; Extrahypothalamic; Cyclic AMP; Anterior pituitary; Corticosterone; Protein kinase C; Dexamethasone; Vasopressin; Glucocorticoid (Kapcala, L.P. (678) 207)

Purkinje cell; Microiontophoresis; γ-Aminobutyric acid; Norepinephrine; Alcohol; Potentiation (Lee, R.-S. (687) 12)

Molecular switch
Hippocampus; Long-term potentiation; Metabotropic glutamate receptor; (*RS*)-α-Methyl-4-carboxyphenylglycine; *trans*-1-Amino-cyclopentyl-1,3-dicarboxylate (Thomas, M.J. (695) 45)

Mollusc
Clione limacina; Pleural ganglia; Neuron culture; Cell recognition (Panchin, Y.V. (669) 315)

Neuropeptide; Neuron; Central/peripheral nervous system; Sensory cell; Epineurium; Eye; Statocyst; Snail; Immunocytochemistry; Hibernation (Kaufmann, W. (695) 125)

Molybdenum
Copper; Manganese; Rubidium; Zinc; Long-Evans Cinnamon rat; Brain; Wilson disease (Saito, T. (695) 240)

Monkey
NADPH diaphorase; Nitric oxide; Synaptophysin; SNAP-25; Cerebellum; Modular organization (Yan, X.X. (669) 285)

Parkinsonism; Dopamine; Motor behavior; Cognition; Recovery (Schneider, J.S. (672) 112)

Primary auditory cortex; Current source density; Multiunit activity; Speech; Place of articulation; Tonotopic organization (Steinschneider, M. (674) 147)

Cortical field potential; Vocalization; Broca's area; Cingulate cortex; Cerebellar hemispherectomy (Gemba, H. (697) 143)

Superior colliculus; Primary motor cortex; Frontal eye field; Orofacial movement; Anterograde axonal tracing; Intracortical microstimulation (Tokuno, H. (703) 217)

Nucleus of the optic tract; Descending projection; Biocytin; Anterograde tracer (Kato, I. (705) 109)

Monoamine
p-Chloroamphetamine; Benzodiazepine; Locomotor activity; Circadian rhythm (Penev, P.D. (669) 207)

Tyrosine hydroxylase; Intermediate lobe; Neuroendocrinology; Interaction; Cotransmission (Vanhatalo, S. (669) 275)

Septum; Diagonal band of Broca; Basal forebrain; Electron microscopy; Learning and memory; Alzheimer's disease (Milner, T.A. (670) 121)

Single cell recording; Descending inhibition; Thermal nociception; Microiontophoresis; α-Adrenoreceptor; Caudal trigeminal nucleus; Medullary dorsal horn (Cahusac, P.M.B. (700) 70)

Monoamine metabolite
Serotonin; Norepinephrine; Dopamine; 5,7-Dihydroxytryptamine; Alcohol drinking; Ethanol; Brain region; Dorsal raphe nucleus; Median raphe nucleus; Sprague–Dawley rat (Adell, A. (693) 70)

Monoamine oxidase
Aromatic L-amino acid decarboxylase; L-5-Hydroxytryptophan; Serotonin; Dopaminergic neuron; Noradrenergic neuron; Substantia nigra pars compacta; Locus coeruleus (Arai, R. (669) 145)

Monoarthritis
Substance P; Preprotachykinin mRNA; Dorsal root ganglia; Synovium; Rat (Garrett, N.E. (675) 203)

Nervous system; Freund's adjuvant; Substance P; Neurokinin A; Calcitonin gene-related peptide; Neuropeptide Y (Bileviciute, I. (704) 71)

Monoclonal antibody
Receptor; Transcytosis (Skarlatos, S. (683) 164)

Adducin; Cell membrane; Cerebellum; Cytoskeleton; Glia; Hippocampus; Synapse (Seidel, B. (700) 13)

Ganglioside; Immunohistochemistry; Rat brain; Cerebellum; Development (Kotani, M. (700) 40)

Monocular deprivation
Microtubule-associated protein; Plasticity; Visual cortex; Cytoskeleton; Oc1; Development, immunohistochemistry (Werner, D. (701) 55)

Monodelphis
Immunohistochemistry; Gonadectomy; Androgen; Steroid receptor (Iqbal, J. (703) 1)

Monodelphis domestica
G protein; Accessory olfactory bulb; Opossum; Differential localization; Vomeronasal organ (Halpern, M. (677) 157)

Monooxygenase
Brain; Flavin-containing monooxygenase; Metabolism; Neuroleptic; Antidepressant; Human brain (Bhamre, S. (672) 276)

Monosodium glutamate
Circadian rhythm; Suprachiasmatic nucleus; Intergeniculate leaflet; Photic stimulation; Constant light; Fos immunocytochemistry (Edelstein, K. (675) 135)

Mood
μ-Opioid receptor agonist; DAMGO; Local cerebral glucose utilization; Brain site; Limbic epilepsy; Memory; Antinociception (Fabian, I. (697) 205)

Morbidity
Metabotropic glutamate receptor; Phenylglycine; α-Methyl-4-carboxyphenylglycine; Fluid percussion; Traumatic brain injury; Rat (Gong, Q.-Z. (700) 299)

Morphine
Nociception; Hyperreflexia; Opiate; Electromyography; RIII reflex (Yeomans, D.C. (670) 297)

N-Methyl-D-aspartate; MK-801; Haloperidol; Dependence; Withdrawal (Kreeger, J.S. (672) 83)

Naloxone; Aminophylline; 5′-*N*-Ethylcarboxamidoadenosine; Serotonin; Norepinephrine; Antinociception; Tail-flick; Analgesia (Yang, S.-w. (673) 170)

Benzodiazepine; Dependence; Tolerance; Cyclic AMP (Sheu, M.-J. (675) 31)

Conditioned place preference; Zolantidine; L-Histidine; α-Fluoromethylhistidine (α-FMH); SCH 23390; DA turnover (Suzuki, T. (675) 195)

Adrenergic neuron; Ventrolateral medulla; c-fos; α-Methyl norepinephrine; Clonidine (Baraban, S.C. (676) 245)

Protein kinase C gamma; Tolerance; Immunocytochemistry; Spinal cord; Analgesia (Mao, J. (677) 257)

U50,488; Spiradoline; Nor-binaltorphimine; Cocaine; Kappa opioid; Drug self-administration (Glick, S.D. (681) 147)

Opioid; Macrophage; Brain cell culture; Microglia; Astrocyte; C6 glioma; Kupffer cell (Dobrenis, K. (686) 239)

Opiate withdrawal; Locus coeruleus; Glutamate; Metabotropic receptor; Desensitization; Protein kinase C; Protein phosphatase (Kogan, J.H. (689) 111)

Oxytocin; Vasopressin; Food intake; Ventromedial hypothalamus; Lateral hypothalamus (Gulati, K. (690) 99)

Analgesia; Microdialysis; Spinal cord; Dorsal raphe; Hypothalamus; Serotonin (Matos, F.F. (693) 187)

Withdrawal syndrome; Rostral ventrolateral medulla; Voltammetry, in vivo; Excitatory amino acid; Naloxone; Opioid (Wang, L. (697) 130)

Dynorphin; Enkephalin; Naltrexone; Striatum; Caudate-putamen; Nucleus accumbens-olfactory tubercle; Tolerance; Dependence (Trujillo, K.A. (698) 69)

Analgesia; Dynorphin; β-Endorphin; Endorphins; Enkephalin; Naloxone; Opiate (Mansour, A. (700) 89)

c-Fos; Nociception; Spinal cord; Time course (Honoré, P. (705) 91)

Morphine abstinence
B-Lymphocyte; Cytokine; Cytotoxic T-lymphocyte; Mouse; Morphine tolerance; Naltrexone; Natural killer cell; Opioid receptors; T-Lymphocyte (Bhargava, H.N. (690) 121)

Morphine antinociception
Dextrorphan; Spinal rat; Tail flick (Advokat, C. (699) 157)

Morphine dependence
Rat strain; Dynorphin; Enkephalin; Morphine withdrawal (Nylander, I. (683) 25)

Morphine-3-glucuronide
Morphine sulfate; Morphine-6-glucuronide; Glucose; Cathecholamine; Hormone; Rat; i.c.v. (Hashiguchi, Y. (694) 13)

Morphine-6-glucuronide
Morphine sulfate; Morphine-3-glucuronide; Glucose; Cathecholamine; Hormone; Rat; i.c.v. (Hashiguchi, Y. (694) 13)

Morphine sulfate
Morphine-3-glucuronide; Morphine-6-glucuronide; Glucose; Cathecholamine; Hormone; Rat; i.c.v. (Hashiguchi, Y. (694) 13)

Morphine tolerance
B-Lymphocyte; Cytokine; Cytotoxic T-lymphocyte; Mouse; Morphine abstinence; Naltrexone; Natural killer cell; Opioid receptors; T-Lymphocyte (Bhargava, H.N. (690) 121)

L-type calcium channel; Antinociception; Dihydropyridine; Thapsigargin; Spinal cord; Brainstem; Striatum (Bernstein, M.A. (696) 83)

Morphine withdrawal
Naloxone; *N*-Methyl-D-aspartate receptor; Nitric oxide; Spinal cord; Blood pressure; Heart rate; Behavior (Buccafusco, J.J. (679) 189)

Rat strain; Dynorphin; Enkephalin; Morphine dependence (Nylander, I. (683) 25)

Morphology
Aging; Lesion; Nucleus basalis magnocellularis; Rat; Neocortex; Plasticity (Wellman, C.L. (669) 48)

Morphometry
Prenatal stress; Medial amygdala; MePV; MePD; Sexually dimorphic nucleus; Sexual differentiation; Ejaculatory behavior; Rodent (Kerchner, M. (672) 251)

S100β, synaptophysin; Hippocampus; Temporal cortex; Temporal pole; Parietal cortex; Hypothalamus; Immunocytochemistry; Serotonin (Azmitia, E.C. (677) 181)

Association cortex; Development; Basal dendrite; Dendritic arborization; Cerebral cortex; Golgi–Cox; Infant (Koenderink, M.J.Th. (678) 233)

Hypothalamic paraventricular nucleus; Stress; Synaptic organization; Vascularity; Wistar rat (Mulders, W.H.A.M. (689) 47)

Vestibular stimulation; Neuronal activity; γ-Aminobutyric acid; Cerebellum; Cerebellectomy; Ataxia; Compensation (Grüsser-Cornehls, U. (703) 51)

Cerebral amyloid angiopathy; Dog; Aging; Ultrastructure; Smooth muscle cell (Wegiel, J. (705) 225)

Morris water maze
Methandrostenolone; Anabolic steroid; Hippocampus; Corticosterone; Testosterone; Memory (Clark, A.S. (679) 64)

BIBN 99; Cholinergic; M2 antagonist; Memory; Muscarinic; Rat; Traumatic brain injury; Treatment (Pike, B.R. (686) 37)

Aging; Rat; Hippocampus; LTP (Diana, G. (686) 107)

Morris water maze task
State-dependent learning; Muscimol; Bicuculline; Place learning; Rat (Nakagawa, Y. (681) 126)

Place learning; Baclofen; 2-Hydroxysaclofen; Oxotremorine; Motor incoordination (Nakagawa, Y. (683) 209)

Mortality
N-Methyl-D-aspartate; Antisense oligodeoxynucleotide; Neuroprotection; Traumatic brain injury; Behavioral recovery; Astrocytic reaction (Sun, F.-Y. (693) 163)

Mossy fiber
Nerve growth factor receptor; Zinc; ICC; Septal lesion (Yu, C. (672) 55)

Adrenal steroid; Corticosterone; Type I; Type II receptors; Stress; Dynorphin mRNA; *N*-Methyl-D-aspartate receptor; AMPA receptor; Dentate gyrus; Stratum lucidum (Watanabe, Y. (680) 217)

Aggression; Y chromosome; Hippocampus; Mouse (Hensbroek, R.A. (682) 203)

Mossy fiber stimulation
Hippocampal slice; CA3; Spontaneous epileptiform burst; Phase-locking; Chaos; Strange attractor; One-dimensional strobomap; Spatial coherence (Hayashi, H. (686) 194)

Motion sickness
Cardiovascular control; Orthostatic hypotension; Vomiting; Sympathetic nervous system; Blood pressure (Yates, B.J. (689) 197)

Motivation
Sexual behavior; Prefrontal cortex (Ågmo, A. (696) 177)

Motoneuron
Passive electrical property; Sag; Q-current (Engelhardt, J.K. (675) 241)

Trigeminal; EPSP; Spindle afferent (Grimwood, P. (686) 259)

Trigeminal; EPSP; Spindle afferent (Grimwood, P. (689) 299)

Motoneuron terminal
Synaptic transmission; Transmitter release; Presynaptic Ca^{2+}-channel; Ca^{2+}-channel toxin; Presynaptic block; Electrocyte; Electric fish (Sierra, F. (683) 215)

Motor activity
Steroid; Anxiety; Burying behavior; Rat; 3α-Hydroxy-5α-pregnan-20-one; Progesterone (Picazo, O. (680) 135)

Anandamide (arachidonylethanolamide); Δ^9-Tetrahydrocannabinol; Cannabinoid receptor; Dopamine; Nigrostriatal dopaminergic neuron; Stereotypic behavior (Romero, J. (694) 223)

Motor axon
Aging; Nerve regeneration; Sudomotor axon; Sciatic nerve; Nerve repair (Verdú, E. (696) 76)

Motor behavior
Parkinsonism; Monkey; Dopamine; Cognition; Recovery (Schneider, J.S. (672) 112)

Motor behavior asymmetry
Striatum; 3-Nitropropionic acid; Quinolinic acid; Huntington's disease; Apomorphine; Rotational behavior (Borlongan, C.V. (676) 231)

Motor control
Parafascicular nucleus; Thalamus; Raphe system; Biocytin; Dextran amine; Rat (Marini, G. (690) 177)

Basal ganglia; Putamen; Caudate nucleus; Globus pallidus; Primate; Single neuron; Movement; Movement direction; Precue; Ipsilateral (Jaeger, D. (694) 111)

Ib afferent; Cutaneous afferent; Pain; Man (Rossi, A. (700) 164)

Motor cortex
Magnetoencephalography; Somatosensory cortex; Human; Neuromagnetic source localisation; Somatosensory evoked field; Movement-related magnetic field (Kristeva-Feige, R. (682) 22)

[^{14}C]Deoxyglucose; Striatum; Caudate-putamen; Forelimb; Hindlimb (Brown, L.L. (686) 207)

Motor cortical excitability
Magnetic stimulation; Cerebellum; Corticospinal neuron; Dentato-thalamo-cortical pathway; Dentate nucleus; Superior cerebellar peduncle (Saito, Y. (694) 200)

Motor deficit
Traumatic brain injury; Sodium channel blocker; Glutamate release inhibitor; Excitotoxicity; Neuronal damage (Sun, F.-Y. (673) 133)

Motor function
Cortex; Recovery; Norepinephrine; Stroke; Trauma; Rat (Goldstein, L.B. (674) 167)

Dopamine; 6-Hydroxydopamine lesion; Basal ganglia; On-off phenomenon; Glutamate antagonist; *N*-Methyl-D-aspartate; MK-801 (Papa, S.M. (701) 13)

Spinal cord; White matter; Ventral funiculus; Histology; Spontaneous running rat; Permanent microdialysis implantation (Gerin, C. (704) 191)

Motor incoordination
Place learning; Morris water maze task; Baclofen; 2-Hydroxysaclofen; Oxotremorine (Nakagawa, Y. (683) 209)

Motor learning
Cerebellum; Aging; Norepinephrine; Rat; β-Adrenergic receptor (Gould, T.J. (684) 150)

Motor neuron
Retrograde axonal transport; Albumin; Transferrin; Transferrin receptor; Lysosome; Ultrastructure; Toxic metal; Amyotrophic lateral sclerosis; Rat (Moos, T. (672) 14)

Familial amyotrophic lateral sclerosis; Transgenic mice; Cu,Zn superoxide dysmutase (SOD); Spinal cord; Brainstem; Peripheral nerve (Dal Canto, M.C. (676) 25)

CGP-39653; Excitotoxicity; NMDAR1 subunit; Nociception; Peripheral neuropathy; Dorsal horn; Neural transplant (Hama, A.T. (687) 103)

Motor neurone disease
Amyotrophic lateral sclerosis; Spinal cord; Glutamate receptor; NMDA receptor; NR1 mRNA; c-*jun*; Glycine transporter (Virgo, L. (676) 196)

Motor preparation
Reach; Field potential; Oscillation; Parietal cortex; Primate (MacKay, W.A. (704) 167)

Motor system
Red nucleus; Calcium-binding protein; Calbindin D-28k; Parvalbumin; Double-immunohistochemical method; Rat (Hontanilla, B. (696) 121)

Motor task
^{1}H-magnetic resonance spectroscopy; Lactate; Basal ganglia; Brain function (Kuwabara, T. (670) 326)

Motor unit
Reinnervation; Hyperinnervation; Hyper-reinnervation; Rat; Muscle (Kuiken, T.A. (676) 113)

Magnetic stimulation; Pyramidal tract; Silent period (Rossini, P.M. (676) 314)

Muscle receptor; Tendon organ; Ib afferent; Contractile force; Muscle contraction (Davies, P. (690) 82)

Tendon organ; Ib afferent; Nerve regeneration; Reinnervation; Transduction (Scott, J.J.A. (697) 225)

Mouse
Ascorbic acid; Typical/atypical antipsychotics; Amineptine; Behavior (De Angelis, L. (670) 303)

Amphetamine; Cocaine; Dopamine; Glutamate; γ-Aminobutyric acid; Stereotypy; Striatum (Karler, R. (671) 100)

Hippocampus; Protein kinase C; Spatial learning; Oxiracetam (Fordyce, D.E. (672) 170)

Spontaneous alternation performance; Substance P; WIN 62577; NK-1 receptor (Ukai, M. (673) 335)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Dopamine; GM1 ganglioside; Fibroblast growth factor; Epidermal growth factor (Schneider, J.S. (674) 260)

Convulsion; Hyperbaric oxygen; Excitatory amino acid; γ-Aminobutyric acid; Ammonia; Brain (Mialon, P. (676) 352)

5-Azacytidine; Developmental alteration; Brain damage; Hyperactivity; Parental behavior; Naive female; Experience effect (Londei, T. (677) 61)

Glibenclamide; Antinociception; Analgesia (opioid); Analgesia (non-opioid); Potassium channel (Raffa, R.B. (677) 277)

Aggression; Y chromosome; Hippocampus; Mossy fiber (Hensbroek, R.A. (682) 203)

Putrescine; Spermidine; Spermine; Chronic cocaine; Convulsion (Shimosato, K. (684) 243)

Long-term potentiation; Dentate granule cell; Protein synthesis; Cycloheximide; Anisomycin; Calcium buffering (Namgung, U. (689) 85)

B-Lymphocyte; Cytokine; Cytotoxic T-lymphocyte; Morphine abstinence; Morphine tolerance; Naltrexone; Natural killer cell; Opioid receptors; T-Lymphocyte (Bhargava, H.N. (690) 121)

Circadian; Cone; Photoreceptor; Retinal degenerate; Retinaldehyde; Rod; Vitamin A (Provencio, I. (694) 183)

Behavior; Saturable transport; Therapeutics; Pharmacokinetics (Banks, W.A. (695) 59)

$GABA_A$ receptor; γ_{2L} subunit; Antipeptide serum; Ethanol; Rat (San Juan, I. (698) 209)

6-Hydroxydopamine; L-DOPA therapy; Parkinson's disease; Neurotoxicity; Dopamine carrier (neuronal) (Naudin, B. (701) 151)

Corticosterone; Interleukin-1β; Adrenalectomy; RU38486; Social behaviour; Body temperature (Goujon, E. (702) 173)

Mouse brain
Phenytoin; MAP2; Cytoskeleton; Cerebellum; Cell culture (Kempermann, G. (687) 194)

Mouse neuromuscular junction
Synaptotagmin II; Synaptic vesicle; Immunolabelling; Quantal release; Lanthanum; α-Latrotoxin (Angaut-Petit, D. (681) 213)

Mouse trisomy 16
Cell line; T antigen; Septum; Down syndrome; Alzheimer's disease; Nerve growth factor (Kim, J.-H. (671) 299)

Movement
Basal ganglia; Putamen; Caudate nucleus; Globus pallidus; Primate; Single neuron; Motor control; Movement direction; Precue; Ipsilateral (Jaeger, D. (694) 111)

Movement control
Human spinal cord; H-reflex; Sensorimotor path (Brooke, J.D. (679) 255)

Movement direction
Basal ganglia; Putamen; Caudate nucleus; Globus pallidus; Primate; Single neuron; Motor control; Movement; Precue; Ipsilateral (Jaeger, D. (694) 111)

Movement-related magnetic field
Magnetoencephalography; Motor cortex; Somatosensory cortex; Human; Neuromagnetic source localisation; Somatosensory evoked field (Kristeva-Feige, R. (682) 22)

MPP$^+$
Rat; Striatum; Cerebrospinal fluid; Dopamine; 6-Hydroxydopamine; Parkinson's disease (Espino, A. (669) 19)

MPTP; Neurotoxicity; Dopamine; Body temperature; Deprenyl; Heat shock protein (Freyaldenhoven, T.E. (688) 161)

Parkinson's disease; Epidermal growth factor; Basic fibroblast growth factor; Glia; Neurotrophin; Ischemia; Neuronal survival (Akaneya, Y. (704) 175)

Apoptosis; DNA fragmentation; Bcl-2; SH-SY5Y cell (Itano, Y. (704) 240)

MPTP
Parkinsonism; Oxygen free radical; DMTU; [^{3}H]Dopamine uptake; Striatal tissue slice (Heo, J.H. (671) 321)

Goldfish, brain; Tyrosine hydroxylase; Dopaminergic; Neuron; Parkinson's disease; Animal model; Microscopy; Immunohistochemistry; Ultrastructure (Goping, G. (687) 35)

MPP$^+$; Neurotoxicity; Dopamine; Body temperature; Deprenyl; Heat shock protein (Freyaldenhoven, T.E. (688) 161)

Iron uptake; Ferrotransferrin receptor; Autoradiography; Parkinson's disease; Human (Faucheux, B.A. (691) 115)

Parkinsonism; Globus pallidus; Entopeduncular nucleus; Dopamine (Rothblat, D.S. (705) 1)

M_1 selective agonist
Phosphoinositide turnover; Xanomeline; Rat brain; Conformational analysis; Antagonist (Periyasamy, S. (693) 118)

m2 subtype
Alzheimer's disease; Muscarinic receptor; Radioligand; Brain imaging (Gitler, M.S. (687) 71)

Müller cell
Retina; γ-Aminobutyric acid; Ischaemia; Immunocytochemistry (Barnett, N.L. (677) 337)

Retinal ganglion cell; Amacrine cell; Blood vessel; Nitric oxide synthase (Huxlin, K.R. (692) 195)

Aging; Retina; Photoreceptor cell; Fischer 344 rat (DiLoreto Jr., D.A. (698) 1)

Müller glia
Pigment epithelium; Retinal development; Cell proliferation assay; Proliferative vitreoretinopathy; Rat (Jaynes, C.D. (678) 55)

Multielectrode array
Liposome endocytosis; Neuronal network; Cell culture (Azzazy, H.M.E. (695) 231)

Multimodal interaction
Neural network; Structural equation modeling; Pavlovian conditioning; Auditory learning; Path analysis; 2-Deoxyglucose; Rat (McIntosh, A.R. (683) 228)

Multimodality
Traumatic brain injury; Recovery of function; Plasticity; Barrel receptor field; Vibrissa; Occipital cortex; Vicariation (Dunn-Meynell, A.A. (675) 143)

Multiple classes of vesicle
Dopamine; Dopamine exocytosis; Cell body; Vesicle; Vesicle content; Vesicle size; Distribution; *Planorbis corneus* (Chen, G. (701) 167)

Multiple system atrophy
Cerebellin; Corticotropin-releasing hormone; Olivopontocerebellar atrophy; Shy-Drager syndrome; Neuropeptide; Cerebellum; Radioimmunoassay (Mizuno, Y. (686) 115)

Multiplicity
N-Methyl-D-aspartate receptor complex; Polyamine recognition domain; Agonist–antagonist; bis-(3-Aminopropyl)nonanediamine (Yoneda, Y. (679) 15)

Multisensory response properties
Caudate-putamen; Globus pallidus; Sensorimotor integration; Auditory; Somatosensory; Electrophysiology; Rat (Chudler, E.H. (674) 33)

Multiunit activity
Primary auditory cortex; Monkey; Current source density; Speech; Place of articulation; Tonotopic organization (Steinschneider, M. (674) 147)

Multi-unit anterograde labeling
Thalamus; Reticular thalamic nucleus; Thalamic commissural projection; Parafascicular thalamic nucleus; Intralaminar thalamic nucleus; Retrograde cell labeling (Hazrati, L.-N. (679) 123)

Multivesicular body
Amyloid protein precursor; Transient global ischemia; Gerbil; Axonal transport; Immunoelectron microscopy (Tomimoto, H. (672) 187)

Mu-opioid
Kappa-opioid; Delta-opioid; DAMGO; U-50,488H; DPDPE; Amphetamine; VTA; Mesoaccumbens dopaminergic system; Feeding; Drinking; Hyperdipsia; Gnawing; Activity; VTA (Badiani, A. (670) 264)

Mu-opioid receptor
Opioid; CTOP; Ventral tegmental area; Nucleus accumbens; Feeding; Drinking; Locomotor activity; Rat (Badiani, A. (690) 112)

Mu receptor
Opioid; Feeding; Dietary obesity; Delta receptor; Kappa receptor; Rat (Cole, J.L. (678) 168)

Desensitization; Tolerance; Dentate gyrus; Opioid; [D-Ala^2,NMe-Phe^4,Gly-ol]-Enkephalin; DAMGO; Interneuron (Mayer, J.H. (686) 134)

Murine trisomy 16
Neuronal adhesion; Down's syndrome; Dorsal root ganglion; Nerve growth factor (Pearce, R. (680) 108)

Muscarine
Ciliary ganglion cell; Fura-2 microfluorometry; SBFI microfluorometry; Nicotine; Ca^{2+} channel blocker (Sorimachi, M. (669) 26)

Acetylcholine; Atropine; slow EPSP; Alcohol; Electrophysiology; Intracellular recording; Eserine (Madamba, S.G. (685) 21)

Ciliary ganglion cell; Fura-2 microfluorometry; Nicotine; Ca^{2+} channel antagonist; Mn^{2+} influx (Sorimachi, M. (696) 67)

Muscarinic
BIBN 99; Cholinergic; M2 antagonist; Memory; Morris water maze; Rat; Traumatic brain injury; Treatment (Pike, B.R. (686) 37)

Muscarinic acetylcholine receptor
Neurotoxicity; Neonatal; Behaviour; Insecticide; Organophosphate; Diisopropylfluorophosphate (Ahlbom, J. (677) 13)

Muscarinic agonist
Middle cerebral artery; Cerebral ischemia; Acetylcholine; Behavior; Rat (Yamaguchi, T. (669) 107)

Coeliac-superior mesenteric ganglia; Whole-cell patch-clamp; Perforated patch; M-Current; A-Current; Ca^{2+}-activated K^+ current; Delayed rectifier K^+ current; 4-Aminopyridine; Tetraethylammonium (Carrier, G.O. (701) 1)

Muscarinic agonist outward current.
Insect motoneurone; Voltage-clamp; Ca-dependent potassium current (David, J.A. (669) 153)

Muscarinic receptor
Oxidative stress; Aging; Striatum (Joseph, J.A. (671) 73)

Aging; Dopamine; *S*-Adenosyl-methionine; Cholesterol; Striatum (Joseph, J.A. (673) 185)

Medial septum; Hippocampus; Sympathetic ingrowth; Lesion; Receptor binding; Pirenzepine (Harrell, L.E. (676) 386)

Medial septum; Hippocampus; Sympathetic ingrowth; Lesion; Internalization; Plasticity (Ayyagari, V. (676) 394)

Medial septum; Hippocampus; Sympathetic ingrowth; Plasticity (Kolasa, K. (684) 201)

Water maze; Passive avoidance; Cingulate cortex (Riekkinen Jr., P. (685) 46)

Alzheimer's disease; m2 subtype; Radioligand; Brain imaging (Gitler, M.S. (687) 71)

Cation channel; Phosphorylation; Dephosphorylation; Deactivation; AlF complex; G protein; Chromaffin cell (Inoue, M. (687) 199)

Guanine nucleotide-binding regulatory protein (G protein); 5-HT_{1A} receptor; $GABA_B$ receptor; GTPase activity; Receptor–G protein coupling (Odagaki, Y. (689) 129)

Receptor binding; Circling training; Plasticity; Development; Rat striatum (Ibarra, G.R. (705) 39)

Muscarinic receptor subtype
Acetylcholine; AF-DX 116; Brain slice; Carbachol; Estrogen; 4-DAMP; M3; McN-A-343; Oxotremorine-M; *p*-F-HHSiD; Pirenzepine; Single-unit activity (Kow, L.-M. (694) 29)

Muscimol
State-dependent learning; Bicuculline; Place learning; Morris water maze task; Rat (Nakagawa, Y. (681) 126)

State-dependent learning; Ethanol; Diazepam; Benzodiazepine/$GABA_A$ receptor complex; Rat (Nakagawa, Y. (686) 70)

Bicuculline; Ethyl-β-Carboline-3-Carboxylate; γ-Aminobutyric acid; L-Glutamate; Picrotoxin; Tyrosine hydroxlase and phenethyl-*N*-methyl transferase immunoreactive cell; Vasodepressor neuron (Gatti, P.J. (693) 80)

Genetic epilepsy; Neuron sensitivity; $GABA_A$ receptor; Flunitrazepam; Purkinje neuron; Baclofen; Iontophoresis; Ligand binding (Gould, E.M. (698) 62)

Subfornical organ; γ-Aminobutyric acid; $GABA_A$ receptor; $GABA_B$ receptor; Bicuculline; Baclofen (Inenaga, K. (705) 85)

Muscle
Reinnervation; Hyperinnervation; Hyper-reinnervation; Motor unit; Rat (Kuiken, T.A. (676) 113)

Muscle atonia
Active sleep; Microiontophoresis; Pontogeniculo-occipital; α-Chloralose; Cat (López-Rodríguez, F. (699) 201)

Muscle contraction
Muscle receptor; Tendon organ; Ib afferent; Motor unit; Contractile force (Davies, P. (690) 82)

Fusimotor neuron; Muscle fatigue (Ljubisavljević, M. (691) 99)

Muscle fatigue
Fusimotor neuron; Isotonic contraction (Ljubisavljević, M. (673) 126)

Fusimotor neuron; Muscle contraction (Ljubisavljević, M. (691) 99)

Muscle receptor
Tendon organ; Ib afferent; Motor unit; Contractile force; Muscle contraction (Davies, P. (690) 82)

Muscle rigidity
Dexmedetomidine; Methylnaloxonium; Ketanserin; α Adrenergic receptor; Alfentanil; Electromyography; ST91 (Weinger, M.B. (669) 10)

Muscle spindle
Reinnervation; Nerve regeneration; Ia afferent (Scott, J.J.A. (671) 325)

Muskrat
Trigeminal; Diving reflex; Cardiovascular; Respiration; Glutamate; Kynurenate; Lidocaine; Nasal; Medullary dorsal horn; Diving response (Panneton, W.M. (691) 37)

Mustard oil
Serotonin; Trigeminal; Pain; Neuronal plasticity (Ebersberger, A. (676) 336)

Mutant
Microglia; Neuroglia; Nucleoside diphosphatase; Histochemistry; Hypomyelination (Vela, J.M. (694) 287)

Retinal degeneration; Hippocampus; Neuron loss; Genetics (Wimer, R.E. (701) 293)

Mutant mouse
Carbonic anhydrase; Acidosis; *N*-Methyl-D-aspartate receptor; Long-term potentiation (Velíšek, L. (671) 245)

Amyloid β-protein; Axonal degeneration; Animal model; Amyloid precursor protein (Ichihara, N. (695) 173)

Myelin
Undernutrition; Pyramidal tract; Spinal cord; D-wave; I-wave; Development (Quirk, G.J. (670) 277)

Nerve regeneration; Macrophage; Degeneration; Schwann cell; Nerve graft; Microcirculation (Dahlin, L.B. (679) 274)

Oligodendrocyte; Glycolipid; Galactocerebroside; Sulfatide; Ultrastructural immunocytochemistry (Schiff, R. (686) 143)

Myelinated axon
Peripheral nerve; Anoxia; Ouabain; Electron probe X-ray microanalysis; Calcium; Na^+-Ca^{2+} exchanger; Na^+-K^+ ATPase (Lehning, E.J. (694) 158)

Corpus callosum; Sex difference; Genu; Unmyelinated axon; Myelin sheath; Electron microscopy (Mack, C.M. (697) 152)

Myelination
Anisotropy; Diffusion; Jimpy; Histology; Magnetic Resonance Imaging (Ono, J. (671) 141)

Free radical; Ischemia; O2A lineage; Reactive oxygen species; White matter (Husain, J. (698) 86)

Myelin basic protein
mCalpain; Localization; Myelin sheath; Rat nervous system; Neurofilament protein; Neuron; Glial cell (Li, Z. (697) 112)

Myelin sheath
mCalpain; Localization; Rat nervous system; Myelin basic protein; Neurofilament protein; Neuron; Glial cell (Li, Z. (697) 112)

Corpus callosum; Sex difference; Genu; Myelinated axon; Unmyelinated axon; Electron microscopy (Mack, C.M. (697) 152)

Myosin
Myosin light chain kinase; Myosin heavy chain; Calmodulin; Central nervous system; Bovine; Immunocytochemistry (Shimada, H. (682) 212)

Myosin heavy chain
Myosin light chain kinase; Myosin; Calmodulin; Central nervous system; Bovine; Immunocytochemistry (Shimada, H. (682) 212)

Myosin light chain kinase
Myosin; Myosin heavy chain; Calmodulin; Central nervous system; Bovine; Immunocytochemistry (Shimada, H. (682) 212)

N

Na^+-Ca^{2+} exchanger
Peripheral nerve; Myelinated axon; Anoxia; Ouabain; Electron probe X-ray microanalysis; Calcium; Na^+-K^+ ATPase (Lehning, E.J. (694) 158)

NADPH-d
Nitric oxide synthase; Retina; Vasculature; Colocalisation; Human; Rat (Roufail, E. (684) 36)

NOS; NOS-inhibitor; Facial nerve avulsion; Facial motor neuron; Quantitative analysis; Neurodestruction (Ruan, R.-S. (698) 163)

NADPH diaphorase
Nitric oxide; Synaptophysin; SNAP-25; Cerebellum; Modular organization; Monkey (Yan, X.X. (669) 285)

Enzyme histochemistry; Nitric oxide; Brain; Goldfish (Villani, L. (679) 261)

Nitric oxide synthase; Retina; Knock-out mice; Electron microscopy; BSPT-formazan; Membrane (Darius, S. (690) 231)

Brainstem; Fos; Histochemistry; Hypothalamus; Medulla; Nitric oxide; Nitroglycerin (Tassorelli, C. (695) 37)

Hypothalamus; Neuronal nitric oxide synthase; Hamster; Western blot; Circadian system; Vasoactive intestinal polypeptide (Reuss, S. (695) 257)

Neuron; Glial; Tissue culture; Nitric oxide synthase; Survival (Page, G.K. (697) 157)

Ultrastructural localization; Neuron; Endothelial cell; Glial cell; Brain; Goldfish (Villani, L. (705) 332)

Naive female
Mouse; 5-Azacytidine; Developmental alteration; Brain damage; Hyperactivity; Parental behavior; Experience effect (Londei, T. (677) 61)

$Na^+ + K^+$-ATPase
Cholesterol oxidation; $Ca^{2+} + Mg^{2+}$-ATPase; Cholesterol oxidase; Fluidity; Interdigitation; Synaptic plasma membrane (Wood, W.G. (683) 36)

Na^+-K^+ ATPase
Peripheral nerve; Myelinated axon; Anoxia; Ouabain; Electron probe X-ray microanalysis; Calcium; Na^+-Ca^{2+} exchanger (Lehning, E.J. (694) 158)

Na^+,K^+-ATPase
Asphyxia; Newborn; Brain; Striatum; Reoxygenation (Goplerud, J.M. (696) 161)

Naloxone
Opioid; Gene expression; Prodynorphin mRNA; Chronic treatment; Rat brain; Nor-binaltorphimine; Naltrexone (Romualdi, P. (672) 42)

Aminophylline; 5′-*N*-Ethylcarboxamidoadenosine; Morphine; Serotonin; Norepinephrine; Antinociception; Tail-flick; Analgesia (Yang, S.-w. (673) 170)

Nociception; Antinociception; Substance P; Opioid; Tail-flick test; Capsaicin; Spinal cord; Primary afferent; C-fiber; CP-96,345; CP-96,344; CP-99,994 (Yashpal, K. (674) 97)

Morphine withdrawal; *N*-Methyl-D-aspartate receptor; Nitric oxide; Spinal cord; Blood pressure; Heart rate; Behavior (Buccafusco, J.J. (679) 189)

Morphine; Withdrawal syndrome; Rostral ventrolateral medulla; Voltammetry, in vivo; Excitatory amino acid; Opioid (Wang, L. (697) 130)

Calcitonin gene-related peptide; $CGRP_{8-37}$; β-Funaltrexamine; Naltrindole; nor-Binaltorphi-

mine; Opioid receptor; Hindpaw withdrawal latency (Yu, L.-C. (698) 23)

Analgesia; Dynorphin; β-Endorphin; Endorphins; Enkephalin; Morphine; Opiate (Mansour, A. (700) 89)

κ-Receptor; Enterostatin; Feeding; Galanin; U50488; Fat intake (Barton, C. (702) 55)

Naloxone-precipitated withdrawal effects
Opioid excitatory supersensitivity; Dorsal-root ganglion neuron; Excitatory opioid receptor antagonist; Etorphine (Crain, S.M. (694) 103)

Naltrexone
Opioid; Gene expression; Prodynorphin mRNA; Chronic treatment; Rat brain; Nor-binaltorphimine; Naloxone (Romualdi, P. (672) 42)

B-Lymphocyte; Cytokine; Cytotoxic T-lymphocyte; Mouse; Morphine abstinence; Morphine tolerance; Natural killer cell; Opioid receptors; T-Lymphocyte (Bhargava, H.N. (690) 121)

Dynorphin; Enkephalin; Morphine; Striatum; Caudate-putamen; Nucleus accumbens-olfactory tubercle; Tolerance; Dependence (Trujillo, K.A. (698) 69)

Naltrindole
δ Opioid receptor; Hypoxia; Heme protein; Cobalt; 4,6-Dioxoheptanoic acid; NG108-15 cell (Mayfield, K.P. (676) 358)

Calcitonin gene-related peptide; $CGRP_{8-37}$; β-Funaltrexamine; nor-Binaltorphimine; Naloxone; Opioid receptor; Hindpaw withdrawal latency (Yu, L.-C. (698) 23)

L-NAME
Quinolinic acid; Tyrosine hydroxylase; Excitotoxicity; Nitric oxide synthase (Connop, B.P. (676) 124)

L-NAME
Rat; Fluorescein isothiocyanate albumin; Microcirculation; Pial venule; L-NMMA (Mayhan, W.G. (686) 99)

Nanoparticle
Dalargin; Leu-enkephalin analog; Polysorbate 80; Blood–brain barrier; Peptide delivery to the brain (Kreuter, J. (674) 171)

Narcolepsy
γ-Hydroxybutyrate; Prefrontal cortex; Electrophysiology; Dopamine; Sleep; Alcohol; Abuse (Godbout, R. (673) 157)

Nasal
Trigeminal; Diving reflex; Cardiovascular; Respiration; Glutamate; Kynurenate; Lidocaine; Medullary dorsal horn; Diving response; Muskrat (Panneton, W.M. (691) 37)

Natriuretic peptides
Guanylate cyclase; Ultracytochemistry; Rat C6 glioma; Dibutyryl cyclic AMP; Retinoic acid (Sorci, G. (683) 51)

Natural killer cell
B-Lymphocyte; Cytokine; Cytotoxic T-lymphocyte; Mouse; Morphine abstinence; Morphine tolerance; Naltrexone; Opioid receptors; T-Lymphocyte (Bhargava, H.N. (690) 121)

Naturally behaving rabbit
Digastric reflex; Periodontal mechanoreceptor; Masseter inhibition (Yamada, Y. (669) 86)

NBQX
Dorsal respiratory group; Ventrolateral nucleus tractus solitarius; Superior laryngeal nerve; Respiratory control (Karius, D.R. (682) 235)

Selective AMPA receptor antagonist; Field potential; Long-term potentiation; In vivo (Sato, K. (683) 279)

Hypermetabolism; MK-801; Glucose utilisation; Limbic system (Patel, T.R. (686) 254)

CNQX; Retinal ganglion cell; *N*-Methyl-D-aspartate and non-NMDA receptor (Yu, W. (692) 190)

c-*fos*; Nucleus accumbens; Amphetamine; MK-801 (Dalia, A. (694) 299)

NCAM
Alcoholism; Alcohol, ethyl; Excitatory amino acid receptor; Receptor, glutamate; Receptor, AMPA; Receptor, kainate; Schizophrenia; Human postmortem tissue; Tau; Western blotting; Immunoreactivity (Breese, C.R. (674) 82)

Long-term potentiation; Neural cell adhesion molecule; Hippocampus; CA1; Synaptic plasticity (Rønn, L.C.B. (677) 145)

Neural cell adhesion molecule; Siberian hamster; Photoperiod polysialic acid (Lee, W. (690) 64)

Near-infrared spectrophotometry
Electroconvulsive therapy; Transcranial Doppler ultrasonography; Cytochrome *aa3* (Saito, S. (673) 93)

Negative dromotropic: Retrograde transport
Dorsal motor nucleus; Glutamate; Ultrastructure; Vagus nerve (Massari, V.J. (679) 227)

Neocortex
Aging; Lesion; Nucleus basalis magnocellularis; Rat; Morphology; Plasticity (Wellman, C.L. (669) 48)

Microgyria; Discrimination learning; Ectopia; DBA; Lashley learning; Brain damage (Rosen, G.D. (681) 177)

Kindling; Long-term potentiation; Kindling-induced potentiation; Plasticity; Memory; Corpus callosum (Racine, R.J. (702) 77)

Long-term potentiation; Plasticity; Memory; Corpus callosum (Racine, R.J. (702) 87)

Neonatal
Apoptosis; Hypoxia-ischemia; Internucleosomal cleavage; DNA damage; Cell death (Hill, I.E. (676) 398)

Neurotoxicity; Muscarinic acetylcholine receptor; Behaviour; Insecticide; Organophosphate; Diisopropylfluorophosphate (Ahlbom, J. (677) 13)

Fodrin; MAP 2; Calpain; Brain damage; Ischemia; Hypoxia (Blomgren, K. (684) 136)

Calpain; Fodrin; Brain damage; Ischemia; Hypoxia (Blomgren, K. (684) 143)

Neonatal period
Handling; Gentling; Maternal separation; Stress; Experimental allergic encephalomyelitis; DA rat (Laban, O. (676) 133)

Neonate
Brown adipose tissue; Non-shivering thermogenesis; Thermoregulation; Decerebration; Hypothalamus (Blumberg, M.S. (699) 214)

Fever mechanism; Pyrogen; Prostaglandin; Leukotriene; Platelet activating factor; Blood-brain barrier; Organum vasculosum laminae terminalis (Coceani, F. (700) 191)

Neostriatum
Neuroleptic; Paw test; Nucleus accumbens; Olfactory tubercle; Sulpiride; D_2 receptor (Prinssen, E.P.M. (673) 283)

d-Amphetamine; Dopamine; 6-Hydroxydopamine; Locomotor activity; Microdialysis; Schizophrenia; Stress (King, D. (685) 117)

Dopamine; Excitatory synaptic transmission; Sulpiride; SKF-83566; Rat (Hsu, K.-S. (690) 264)

Neovascularization
Neural transplantation; Cortical lesion cavity; Scanning electron microscope (Miyoshi, Y. (681) 131)

c-*fos* gene; Metallothionein promoter; Exogenous control; NRK cell; Nf-1 cell; Transplantation; Angiogenesis; Gene therapy (Asakuno, K. (702) 23)

Nerve
Protein transport; Cold block; Transport reversal; Microtubule; Taxol (Smith, R.S. (672) 205)

Nerve compression
Diabetic neuropathy; Nerve injury (Zochodne, D.W. (698) 130)

Nerve crush
NR-1; c-*jun*; mRNA; Glutamate receptor; Axotomy; Development (Hay, C. (704) 145)

Nerve degeneration
Rat sciatic nerve; Nerve regeneration; Nerve grafting; Nerve repair; Schwann cell (Danielsen, N. (681) 105)

Nerve gap repair
Nerve graft; Schwann cell; Basal lamina; Axonal regeneration; Peripheral nerve; Rat (Gulati, A.K. (705) 118)

Nerve graft
Nerve regeneration; Macrophage; Degeneration; Schwann cell; Myelin; Microcirculation (Dahlin, L.B. (679) 274)

Schwann cell; Basal lamina; Axonal regeneration; Nerve gap repair; Peripheral nerve; Rat (Gulati, A.K. (705) 118)

Nerve grafting
Rat sciatic nerve; Nerve regeneration; Nerve degeneration; Nerve repair; Schwann cell (Danielsen, N. (681) 105)

Nerve growth factor
Cell line; T antigen; Septum; Mouse trisomy 16; Down syndrome; Alzheimer's disease (Kim, J.-H. (671) 299)

Protooncogene; Cyclic AMP; Calcium; Protein kinase C (Jehan, F. (672) 128)

Neuronal adhesion; Down's syndrome; Dorsal root ganglion; Murine trisomy 16 (Pearce, R. (680) 108)

Diffusion; Elimination; Controlled release; Brain interstitium; Polymer (Krewson, C.E. (680) 196)

Basal forebrain; Brain-derived neurotrophic factor; Neurotrophin; Neuronal survival (Nonomura, T. (683) 129)

MAP kinase; ERK; PC12D cell; Neurite; Staurosporine (Sano, M. (688) 213)

Conditioned taste aversion; Chronic i.c.v. drug administration; Choline acetyltransferase; Alzheimer's disease; Rat; Memory; Conditioning (Lipinski, W.J. (692) 143)

Choline acetyltransferase; Parvalbumin; Nucleus basalis of Meynert; Cholinergic neuron; Cholinergic synapse (Burgos, I. (692) 154)

Hypoxia; Immediate-early response gene; c-*fos*; Pheochromocytoma-12 cell; Neuroblastoma cell; Fibroblast (Prabhakar, N.R. (697) 266)

Neuropathic pain; Osmotic pump; Thermal hyperalgesia; Mechanical allodynia; Rat (Ren, K. (699) 286)

Nerve growth factor receptor
Zinc; ICC; Mossy fiber; Septal lesion (Yu, C. (672) 55)

Nerve injury
Dental nerve; Development; TrkB; Neurotrophin; Immunocytochemistry (Foster, E. (686) 123)

Diabetic neuropathy; Nerve compression (Zochodne, D.W. (698) 130)

Coexistence; Pain; Plasticity; Primary sensory neuron; Spinal cord (Zhang, Q. (705) 149)

Nerve ligation
Axonal reticulum; Noradrenergic neuron; Axonal transport; Neurosecretory granule; Nerve terminal; Immunocytochemistry (Quatacker, J. (680) 36)

Nerve regeneration
Muscle spindle; Reinnervation; Ia afferent (Scott, J.J.A. (671) 325)

Macrophage; Degeneration; Schwann cell; Nerve graft; Myelin; Microcirculation (Dahlin, L.B. (679) 274)

Rat sciatic nerve; Nerve degeneration; Nerve grafting; Nerve repair; Schwann cell (Danielsen, N. (681) 105)

Aging; Sudomotor axon; Motor axon; Sciatic nerve; Nerve repair (Verdú, E. (696) 76)

Tendon organ; Ib afferent; Motor unit; Reinnervation; Transduction (Scott, J.J.A. (697) 225)

Diabetic neuropathy; Polyol pathway; Diabetic rat (Love, A. (703) 105)

Nerve repair
Rat sciatic nerve; Nerve regeneration; Nerve degeneration; Nerve grafting; Schwann cell (Danielsen, N. (681) 105)

Reinnervation; Lingual nerve; Chorda tympani; Tongue; Taste; Salivary gland (Smith, K.G. (691) 142)

Aging; Nerve regeneration; Sudomotor axon; Motor axon; Sciatic nerve (Verdú, E. (696) 76)

Nerve terminal
Axonal reticulum; Nerve ligation; Noradrenergic neuron; Axonal transport; Neurosecretory granule; Immunocytochemistry (Quatacker, J. (680) 36)

Nerve transplantation
Frog; Aberrant synapse; Cross-modality rewiring; Alternative specificity; Neural plasticity (Scalia, F. (685) 187)

Nervous system
Epidermal growth factor; Transforming growth factor-α; Development; Subventricular zone; Cerebellum; Hybridization, in situ (Seroogy, K.B. (670) 157)

Hippocampal cholinergic neurostimulating peptide; Hippocampal cholinergic neurostimulating peptide precursor protein; Radioimmuno-assay; High-performance liquid chromatography; Aging (Ojika, K. (701) 19)

Freund's adjuvant; Monoarthritis; Substance P; Neurokinin A; Calcitonin gene-related peptide; Neuropeptide Y (Bileviciute, I. (704) 71)

Nestin
Vomeronasal organ; Olfactory system; Chemosensory; Neurogenesis; Development; Precursor cell (Osada, T. (683) 254)

Neural cell adhesion molecule
Long-term potentiation; NCAM; Hippocampus; CA1; Synaptic plasticity (Rønn, L.C.B. (677) 145)

NCAM; Siberian hamster; Photoperiod polysialic acid (Lee, W. (690) 64)

Neural cell differentiation
Human neurodevelopment; Fetal CNS; Signal transduction (Larocca, J.N. (701) 135)

Neural chimera
Genetic reflex epilepsy; Audiogenic seizure; Photogenic seizure; Fayoumi epileptic chicken (Fadlallah, N. (675) 55)

Neural gene
Tryptophan hydroxylase; Serotonin; Transcription, NF-Y (Reed, G.E. (682) 1)

Neural graft
Excitatory amino acid; Nociception; Hyperalgesia; Allodynia; Spinal cord; Chronic pain; Chromaffin cell (Siegan, J.B. (680) 88)

Fast-blue labeling; Growth restoration; Snail (Gomot, A. (682) 127)

Suprachiasmatic; Transplantation; Aging; Circadian; Hamster (Viswanathan, N. (686) 10)

Neural grafting
Hippocampus; Neurofilament; Development; Tissue culture; Immunocytochemistry (Shetty, A.K. (676) 293)

Neural network
Structural equation modeling; Multimodal interaction; Pavlovian conditioning; Auditory learning; Path analysis; 2-Deoxyglucose; Rat (McIntosh, A.R. (683) 228)

Neural plasticity
Olfaction; Sensory deprivation; *N*-Methyl-D-aspartate; Olfactory deprivation (Wilson, D.A. (677) 238)

Frog; Nerve transplantation; Aberrant synapse; Cross-modality rewiring; Alternative specificity (Scalia, F. (685) 187)

Vestibular compensation; Decompensation; Nystagmus; *N*-Methyl-D-aspartate receptor; Immunohistochemistry (Kitahara, T. (700) 182)

Neural retina
Retinal pigment epithelium; Development; Transdifferentiation; Growth factor; bFGF; Tissue culture (Zhao, S. (677) 300)

Neural tracing
Replication deficient recombinant adenovirus; ß-Galactosidase; Retrograde transport; Rat striatum (Kuo, H. (705) 31)

Neural transplant
CGP-39653; Excitotoxicity; Motor neuron; NMDAR1 subunit; Nociception; Peripheral neuropathy; Dorsal horn (Hama, A.T. (687) 103)

Neural transplantation
Neovascularization; Cortical lesion cavity; Scanning electron microscope (Miyoshi, Y. (681) 131)

Retrovirus; Gene transfer; Rat; Tyrosine hydroxylase; 6-Hydroxydopamine; Ex vivo gene therapy (Yoshimoto, Y. (691) 25)

Neurectomy
γ-Aminobutyric acid; Receptor; Spinal cord; Chronic inflammation; Pain; Complete Freund's adjuvant (CFA); Plasticity (Castro-Lopes, J.M. (679) 289)

Neurite
Nerve growth factor; MAP kinase; ERK; PC12D cell; Staurosporine (Sano, M. (688) 213)

Neurite outgrowth
G-protein; Enediyne; Neuroblastoma (Schor, N.F. (673) 175)

Neurite regeneration
Spermine; Spermidine; Putrescine; Basic fibroblast growth factor; Cultured hippocampal neuron (Chu, P.-j. (673) 233)

Neuritogenesis
Thrombin; Hippocampal neuron; Sprouting; Serum-free (Brewer, G.J. (683) 258)

Neuroanatomy
Circadian rhythm; Reproduction; Hypothalamus; Immunocytochemistry; Electron microscopy; Estrogen receptors (Watson, Jr., R.E. (689) 254)

Neuroaxonal dystrophy
GAP-43; Dorsal root ganglia; Axotomy (Ohara, S. (705) 325)

Neuroblastoma
G-protein; Enediyne; Neurite outgrowth (Schor, N.F. (673) 175)

Neuroblastoma cell
Hypoxia; Immediate-early response gene; c-*fos*; Pheochromocytoma-12 cell; Nerve growth factor; Fibroblast (Prabhakar, N.R. (697) 266)

Neuroblastoma F11 cell
Opioid; μ Receptor agonist; δ Receptor agonist; κ Receptor agonist; Cholera toxin; Dorsal root ganglion neuron; K^+ Conductance; Pertussis toxin (Fan, S.-f. (696) 97)

Neurocalcin
Calcium-binding protein; Inner ear; Rat; Immunohistochemistry (Iino, S. (680) 128)

Neurodegeneration
Aluminum; Tau; Rabbit (Savory, J. (669) 325)

Cell death and membrane attack complex; CD59 complement inhibitor (Shen, Y. (671) 282)

Brain energy metabolism; Streptozotocin; Acetyl-L-carnitine; Spatial learning; Choline acetyltransferase; Animal model; Alzheimer's disease (Prickaerts, J. (674) 142)

N-Methyl-4-phenylpyridinium ion; Parkinson's disease; Dopamine; Substantia nigra; Rat; Carboline (Neafsey, E.J. (675) 279)

Alzheimer's disease; β-Amyloid precursor protein; Immunocytochemistry; Thiamine deficiency; Wernicke–Korsakoff syndrome (Calingasan, N.Y. (677) 50)

Alzheimer's disease; β-Amyloid; Glycosaminoglycan; Heparan sulfate; Chondroitin sulfate; Neurotoxicity; Plaque (Woods, A.G. (697) 53)

Excitotoxicity; *N*-Methyl-D-aspartate; Arcuate nucleus; Neuronal culture; Microdialysis; Amino acid (Puka-Sundvall, M. (705) 65)

Neurodestruction
NOS; NADPH-d; NOS-inhibitor; Facial nerve avulsion; Facial motor neuron; Quantitative analysis (Ruan, R.-S. (698) 163)

Neuroendocrinology
Tyrosine hydroxylase; Intermediate lobe; Interaction; Monoamine; Cotransmission (Vanhatalo, S. (669) 275)

Colocalization; False transmitter; Interaction; Cotransmission; Superfluous transmitter; Periventriculo-hypophyseal (Vanhatalo, S. (687) 205)

Neuroepithelium
Neuronatin; Development; Brain; Gene; Proliferation; Commitment; Differentiation; Migration (Joseph, R. (690) 92)

Neurofibrillary pathology
Alzheimer's disease; Freeze-dried vertically Pt-C replicated PHF; Organization of tau subunits in PHF; PHF isolated from neurofibrillary tangles (Ruben, G.C. (675) 1)

Neurofibrillary tangle
Alzheimer's disease; Amyloid precursor protein; β-Amyloid proteins (β/A4); β/A4 bearing carboxy-terminal peptide; Senile plaque; Electron microscopy; Al^{3+} (Chong, Y.-H. (670) 137)

Bcl-2; Oncogene; Alzheimer's disease; Human brain; Apoptosis; Immunohistochemistry; PHF-1; AT8; Cell death (Satou, T. (697) 35)

Neurofilament
CaM kinase II; Phosphorylation; Acrylamide; Glycidamide; Cytoskeletal protein (Reagan, K.E. (671) 12)

Hippocampus; Development; Tissue culture; Neural grafting; Immunocytochemistry (Shetty, A.K. (676) 293)

Glaucoma; Retina; Calcium-binding protein (Vickers, J.C. (680) 23)

Neurofilament protein
Depolarization; Potassium; Cytoskeleton; Trauma; Ischemia; Epilepsy (Whitson, J.S. (694) 213)

mCalpain; Localization; Myelin sheath; Rat nervous system; Myelin basic protein; Neuron; Glial cell (Li, Z. (697) 112)

Neurogenesis
Vomeronasal organ; Olfactory system; Chemosensory; Development; Precursor cell; Nestin (Osada, T. (683) 254)

Neurogenic inflammation
Trigeminal ganglion; Migraine; Calcitonin gene-related peptide; Vasoactive intestinal peptide; Substance P; Antidromic vasodilatation (Escott, K.J. (669) 93)

Arthritis; Symmetry; Neuropeptide (Kidd, B.L. (688) 72)

Neuroglia
Microglia; Nucleoside diphosphatase; Histochemistry; Hypomyelination; Mutant (Vela, J.M. (694) 287)

Neurogranin
Neurogranin mRNA; RC3; Sleep deprivation; Sleep regulation (Neuner-Jehle, M. (685) 143)

Neurogranin mRNA
Neurogranin; RC3; Sleep deprivation; Sleep regulation (Neuner-Jehle, M. (685) 143)

Neurohypophysis
Hypothalamus; Plasticity; Anti-F3 antibody; Colchicine (Olive, S. (689) 271)

N-Methyl-D-aspartate receptor; Glutamate receptor; Fura-2; Rat (Giovannucci, D.R. (702) 246)

Neurokinin
Substantia gelatinosa; Spinal slice; GR73632; GR64349; GR82334 (Bentley, G.N. (673) 101)

Neurokinin-1
Human; Newborn; Brainstem; Substance P; Binding site; Autoradiography (Jordan, D. (695) 117)

Neurokinin A
Antibody microprobe; Dopamine; In vivo; Rat brain; Release; Substantia nigra (Furmidge, L.J. (679) 241)

Nervous system; Freund's adjuvant; Monoarthritis; Substance P; Calcitonin gene-related peptide; Neuropeptide Y (Bileviciute, I. (704) 71)

Neurokinin B
Acetylcholine; Nucleus basalis; Aging; Lesion (Wenk, G.L. (679) 8)

Neurokinin receptor
Substance P; Senktide; Dopamine; Substantia nigra; 6-Hydroxydopamine; Parkinson's disease (Bannon, M.J. (695) 19)

Neurokinins
β-Endorphin; Cerebrospinal fluid; Analgesia; Chromatography, high performance liquid; Pain; Spinal cord; Excitatory amino acids (Bach, F.W. (701) 192)

Neuroleptic
Brain; Flavin-containing monooxygenase; Metabolism; Antidepressant; Monooxygenase; Human brain (Bhamre, S. (672) 276)

Paw test; Neostriatum; Nucleus accumbens; Olfactory tubercle; Sulpiride; D_2 receptor (Prinssen, E.P.M. (673) 283)

Dopamine; RWJ 37796; Striatum; Extrapyramidal symptom; Supersensitivity (Shapiro, L.A. (677) 250)

Antipsychotic drug; Glutamate; Taurine; Tardive dyskinesia; Striatum (Lidsky, T.I. (686) 104)

Neuroleptic malignant syndrome
Microinjection; Intracraneal temperature; Dopamine; Lateral hypothalamus; Sulpiride; Dopamine D2 receptor; Brain self-stimulation (Parada, M.A. (674) 117)

Neurological model
Amygdala kindling; Anteromedial cortex lesion; Somatosensory asymmetry; Recovery of function; Kindled seizure stage (Hernandez, T.D. (673) 208)

Neuromagnetic source localisation
Magnetoencephalography; Motor cortex; Somatosensory cortex; Human; Somatosensory

evoked field; Movement-related magnetic field (Kristeva-Feige, R. (682) 22)

Neuromodulation
Somatosensory cortex; Intracellular; Norepinephrine; γ-Aminobutyric acid (Sessler, F.M. (675) 171)

Neuromodulator
N-Methyl-D-aspartate receptor; Darting behavior; Polyamine; Rat prefrontal cortex; [^{3}H]MK-801; Radioligand binding (Savelli, J.E. (682) 41)

Neuromodulin
GAP-43; B-50; *Xenopus laevis*; Expression; Phylogeny; Tetraploidy (Shain, D.H. (697) 241)

Neuromuscular junction
Acetylcholine release; Synaptic vesicle exocytosis; Clostridial neurotoxin; Synaptosome; *Torpedo*; Miniature end plate current; VAMP/synaptobrevin (Herreros, J. (699) 165)

Synaptotagmin; Vesicle; Synapse; Crustacean (Cooper, R.L. (703) 214)

Neuron
Aromatase; Zebra finch; Song control; Estradiol (Merten, M.D.P. (671) 317)

Cell culture; Astrocyte; Astroglia; Immunocytochemistry; Gluconeogenesis (Schmoll, D. (677) 341)

Goldfish, brain; Tyrosine hydroxylase; Dopaminergic; MPTP; Parkinson's disease; Animal model; Microscopy; Immunohistochemistry; Ultrastructure (Goping, G. (687) 35)

Immunohistochemistry; Electron microscopy; Plasma membrane; Lysosome; Apolipoprotein E (Tooyama, I. (691) 235)

Animal model; Brain; Rhesus monkey; Stereology (Pakkenberg, H. (693) 201)

Neuropeptide; Central/peripheral nervous system; Sensory cell; Epineurium; Eye; Statocyst; Mollusc; Snail; Immunocytochemistry; Hibernation (Kaufmann, W. (695) 125)

mCalpain; Localization; Myelin sheath; Rat nervous system; Myelin basic protein; Neurofilament protein; Glial cell (Li, Z. (697) 112)

Glial; Tissue culture; NADPH diaphorase; Nitric oxide synthase; Survival (Page, G.K. (697) 157)

μ-Calpain; Proteinase; Proenzyme; Calcium; Autodigestion; Immunohistochemistry; Nucleus (Onizuka, K. (697) 179)

Cyclic ADP-ribose; Second messenger system; Central nervous system; Immunohistochemistry; Western blotting (Mizuguchi, M. (697) 235)

NADPH-diaphorase; Ultrastructural localization; Endothelial cell; Glial cell; Brain; Goldfish (Villani, L. (705) 332)

Neuron activity
Long-term potentiation; Hippocampus; Basolateral amygdala; Tetracaine (Ikegaya, Y. (671) 351)

Neuronal activity
Vestibular stimulation; γ-Aminobutyric acid; Cerebellum; Morphometry; Cerebellectomy; Ataxia; Compensation (Grüsser-Cornehls, U. (703) 51)

Neuronal adhesion
Down's syndrome; Dorsal root ganglion; Nerve growth factor; Murine trisomy 16 (Pearce, R. (680) 108)

Neuronal bungarotoxin
Acetylcholine receptor; Parasympathetic neuron; α-Bungarotoxin; Cardiac ganglion (Sargent, P.B. (680) 99)

Neuronal cell
Corticotropin releasing factor binding protein; Expression; Astrocytic cell (Behan, D.P. (698) 259)

Neuronal cell line
Apoptosis; Programmed cell death; SV40 large T antigen (Hisanaga, K. (684) 79)

Opiate; Intracellular calcium; Fura-2; $^{45}Ca^{2+}$ uptake (Fields, A. (687) 94)

Neuronal coordination
Cross-correlation analysis; Inhibitory circuit; Species difference; Somatosensory system; Ventrobasal thalamus (Alloway, K.D. (691) 46)

Neuronal culture
Glutamate toxicity; Lactate dehydrogenase; σ-Mediated neuroprotection; Intracellular calcium; Neuronal morphology (DeCoster, M.A. (671) 45)

Phospholipase A_2; Melittin; Neurotoxicity; $[Ca^{2+}]_i$; Seizure; Rat (Clapp, L.E. (693) 101)

Glutamate; Intracellular calcium; Neuroprotection; Sigma ligand; Confocal microscopy (Klette, K.L. (704) 31)

Excitotoxicity; *N*-Methyl-D-aspartate; Neurodegeneration; Arcuate nucleus; Microdialysis; Amino acid (Puka-Sundvall, M. (705) 65)

Neuronal damage
Traumatic brain injury; Sodium channel blocker; Glutamate release inhibitor; Excitotoxicity; Motor deficit (Sun, F.-Y. (673) 133)

Atipamezole; Dexmedetomidine; Epilepsy; Hippocampus; Kainic acid; Status epilepticus (Halonen, T. (693) 217)

Neuronal death
Ischemic brain injury; Traumatic brain injury; Glutamate receptor (Regan, R.F. (705) 188)

Neuronal degeneration
Volkensin; Ricin; Cerebellum; Inferior olive; Pontine nuclei; Retrograde transport (Cevolani, D. (689) 163)

Calcium; Non-NMDA receptor; Neurotoxicity (Akbarian, S. (699) 297)

Neuronal development
Ethanol; Central nervous system neuron; Fura-2; Glutamate receptor; Intracellular calcium; Granule neuron (Gruol, D.L. (673) 1)

Neuronal mechanism
Putamen; Bicuculline; Dystonia; Substantia nigra pars reticulata; Single unit recording (Yamada, H. (677) 333)

Neuronal morphology
Glutamate toxicity; Lactate dehydrogenase; Neuronal culture; σ-Mediated neuroprotection; Intracellular calcium (DeCoster, M.A. (671) 45)

Neuronal network
Liposome endocytosis; Multielectrode array; Cell culture (Azzazy, H.M.E. (695) 231)

Neuronal nicotinic acetylcholine receptor
Rat hippocampus; Immunocytochemistry; Upregulation; Methyllycaconitine; Nicotine; [^{3}H]QNB (Barrantes, G.E. (672) 228)

Neuronal nitric oxide synthase
Hypothalamus; Hamster; NADPH-diaphorase; Western blot; Circadian system; Vasoactive intestinal polypeptide (Reuss, S. (695) 257)

Neuronal plasticity
Serotonin; Trigeminal; Pain; Mustard oil (Ebersberger, A. (676) 336)

Protein kinase C; Kindling; Epilepsy; Amygdala, Hippocampus (Akiyama, K. (679) 212)

Neuronal protein
Glucose transport; Stroke; Brain metabolism (McCall, A.L. (670) 29)

Neuronal release
Nitric oxide; Opioid peptide; Rat (Hara, S. (675) 190)

Neuronal survival
Basal forebrain; Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin (Nonomura, T. (683) 129)

Parkinson's disease; Epidermal growth factor; Basic fibroblast growth factor; Glia; Neurotrophin; Ischemia; MPP^+ (Akaneya, Y. (704) 175)

Neuronal transport
Colchicine; Lysosome; Microtubule; Dendrite; Hypoglossal nucleus; Fluorescent microsphere (Beske, O. (669) 125)

Neuronal uptake
Shell; Core; Rostral pole; D_2 autoreceptor; Fast cyclic voltammetry; Dopamine (Wieczorek, W. (699) 171)

Neuronatin
Development; Brain; Gene; Neuroepithelium; Proliferation; Commitment; Differentiation; Migration (Joseph, R. (690) 92)

Neuron cell culture
Insulin-like growth factor I; IGF I receptor; Peroxidase anti-peroxidase; Hybridization, in situ; Radioimmunoassay; IGF I internalization (Schechter, R. (670) 1)

Neuron culture
Mollusc; Clione limacina; Pleural ganglia; Cell recognition (Panchin, Y.V. (669) 315)

Trisomy 16 mouse; Down's syndrome; Septum; Membrane current; Action potential (Acevedo, L.D. (701) 89)

Neuron damage
Osmotic effect; Cell swelling; Extracellular space; Hyponatremia; Spreading depression; Seizure; Epilepsy (Huang, R. (695) 195)

Neuron loss
Retinal degeneration; Mutant; Hippocampus; Genetics (Wimer, R.E. (701) 293)

Neuron reconstruction
Nucleus of the solitary tract; Brain slice; Patch clamp; Taste; Synaptic potential; Glutamate; γ-Aminobutyric acid (Wang, L. (702) 188)

Neurons
β-Amyloid; Neurotoxicity; Glutamate; Excitotoxicity; Astrocyte; Hippocampal cell culture; Cortical cell culture; Alzheimer's disease (Gray, C.W. (691) 169)

Neuron sensitivity
Genetic epilepsy; $GABA_A$ receptor; Muscimol; Flunitrazepam; Purkinje neuron; Baclofen; Iontophoresis; Ligand binding (Gould, E.M. (698) 62)

Neuron-specific enolase
Freezing technique; Culture; γ-Aminobutyric acid; Thienyl-phencyclidine; Computer microscope; Principal component analysis (Petite, D. (669) 263)

Protein kinase C; PKC; Isoenzyme; IMHV; Imprinting; Double-labeling; S100; Glial cell (Van der Zee, E.A. (676) 41)

Neuropathic pain
Nerve growth factor; Osmotic pump; Thermal hyperalgesia; Mechanical allodynia; Rat (Ren, K. (699) 286)

Neuropathology
Timm stain; Epilepsy; Human; Hilus (Masukawa, L.M. (678) 65)

MAP2; Head injury; Cytoskeleton; Fluid-percussion; Kynurenate (Hicks, R.R. (678) 151)

Aging; Amyloidosis; Apolipoprotein E; Proteoglycans (Permanne, B. (685) 154)

Transfection; Antisense oligonucleotide; Calcium-activated protease; Excitatory amino acid; Synaptic dysfunction; Excitotoxicity (Bednarski, E. (694) 147)

Excitatory amino acid; *N*-Methyl-D-aspartate antagonist; Dizocilpine maleate; MK-801; Cingulate cortex; Neurotoxicity; Rat (Fix, A.S. (696) 194)

Neuropathy
Neuropeptide; Neurotrophin; Growth factor (Ohara, S. (699) 143)

Neuropeptide
Opioid receptor; Eye; Enkephalin; Growth; Cell renewal; Zeta (ζ) receptor; Evolution; Immunocytochemistry (Zagon, I.S. (671) 105)

Thyrotropin releasing hormone; Pyroglutamyl peptidase II; Kindling; Ectopeptidase (De Gortari, P. (679) 144)

Lordosis; Medial preoptic area; Ventromedial hypothalamus; Progesterone (Whitman, D.C. (680) 73)

CGRP; Cranial nerve; Plasticity (Thompson, G.C. (683) 140)

Superior salivatory nucleus; Pterygopalatine ganglion; Cholera toxin B subunit; Tyrosine hydroxylase; Serotonin; Double-immunostaining technique (Nemoto, T. (685) 33)

Cerebellin; Corticotropin-releasing hormone; Olivopontocerebellar atrophy; Shy-Drager syndrome; Cerebellum; Multiple system atrophy; Radioimmunoassay (Mizuno, Y. (686) 115)

Aminopeptidase; Excitatory amino acid; Aging; β-Amyloid peptide (Iribar, C. (687) 211)

Arthritis; Neurogenic inflammation; Symmetry (Kidd, B.L. (688) 72)

Neuron; Central/peripheral nervous system; Sensory cell; Epineurium; Eye; Statocyst; Mollusc; Snail; Immunocytochemistry; Hibernation (Kaufmann, W. (695) 125)

Brain (rat); Dopamine; Electroconvulsive stimulus (ECS); Noradrenaline; Serotonin (Stenfors, C. (698) 39)

Neuropathy; Neurotrophin; Growth factor (Ohara, S. (699) 143)

Hypophysiotropic hormone; Brain; Amphibian; Reproduction; Immunohistochemistry (Collin, F. (703) 111)

Cortical graft; Calcium-binding protein; Immunocytochemistry (Bele, S. (704) 210)

Neuropeptide FF
Antiopioid; Opiate; Hyperalgesia; Pain facilitatory system; Central nervous system (Devillers, J.-P. (700) 173)

Neuropeptide Y
Optic tectum; Field potential; Pretectotectal inhibition; Cane toad (Schwippert, W.W. (669) 150)

Peripheral neuropathy; Hyperalgesia; Sympathetic nervous system (Tracey, D.J. (669) 245)

Serotonin; Suprachiasmatic nucleus; Intraocular transplant (Ueda, S. (673) 325)

Interstitial neuron; Subplate neuron; Somatostatin; Substance P; Cholecystokinin (Ang, L.-C. (674) 329)

Sympathoadrenal system; Depolarization; Enkephalin; Somatostatin; Plasticity (Maynard-Salgado, G. (676) 268)

Ciliary ganglion; Substance P; Calcitonin gene-related peptide; Vasoactive intestinal polypeptide; Tyrosine hydroxylase; Dopamine-β-hydroxylase; Human (Kirch, W. (681) 229)

Autonomic nervous system; Cardiovascular regulation; Corticotrophin releasing factor; Enkephalin; Heart; Lateral hypothalamic area; Medulla oblongata; Oxytocin; Paraventricular hypothalamic nucleus; Pseudorabies virus; Raphe nuclei; Serotonin; Somatostatin; Stellate ganglion; Sympathetic nervous system (Jansen, A.S.P. (683) 1)

Calcium binding protein; Immunohistochemistry; Retrograde neuronal tracing; Autonomic nervous system; Sympathetic neuron; Chemical coding (Grkovic, I. (684) 127)

Microdialysis; Noradrenaline; Hypothalamus; Paraventricular nucleus; Stress; Opioid system (Shibasaki, T. (688) 189)

Neuropeptide Y-(13–36)
Neuropeptide Y receptor; PYY binding; Spontaneously hypertensive rat; Nucleus tractus solitarius; Autoradiography; Blood pressure; Intracerebroventricular injection; Rat brain (Aguirre, J.A. (684) 159)

Vasopressin; Norepinephrine; Blood pressure; Heart rate; Sexual dimorphism (Sato, K. (689) 71)

Dihydroxyphenylacetic acid; 5-Hydroxyindoleacetic acid; Homovanillic acid; Hypothalamic paraventricular nucleus; Microdialysis, in vivo; Noradrenaline; Rat (Pavia, J.M. (690) 108)

Rat; Hypothalamus; Zucker; Obesity (Dryden, S. (690) 185)

Inferior colliculus; Enkephalin; Ascending auditory projections; Commissural fiber; Rat (Nakagawa, H. (690) 236)

Hyperphagia; VMH lesion; Immunoneutralization (Dube, M.G. (690) 275)

Anorexia; Tumor; Adenylate cyclase; Experimental cancer (Chance, W.T. (691) 180)

Nicotine; Hypothalamus; Energy balance; Rat (Frankish, H.M. (694) 139)

Suprachiasmatic nucleus; Tyrosine hydroxylase; Ontogenesis; Immunohistochemistry; Confocal laser scanning microscopy; Vasoactive intestinal polypeptide; Somatostatin; Aromatic L-aminoacid decarboxylase (Battaglia, A.A. (696) 7)

Activity; c-*fos*; Hamster; Immunocytochemistry; Intergeniculate leaflet; Nonphotic; Rhythm; Suprachiasmatic nucleus (Janik, D. (698) 137)

Fos; Fourth ventricle; Paraventricular nucleus; Forebrain; Volume transmission; Extracellular fluid transport (Xu, B. (698) 227)

Nervous system; Freund's adjuvant; Monoarthritis; Substance P; Neurokinin A; Calcitonin gene-related peptide (Bileviciute, I. (704) 71)

β-Endorphin; Luteinizing hormone; Feeding; Hypothalamus; Opiate; Push–pull perfusion (Kalra, P.S. (705) 353)

Neuropeptide Y mRNA
Proopiomelanocortin; Arcuate nucleus; Neuropeptide Y receptor; Hybridization, in situ; Autoradiography (Garcia de Yebenes, E. (674) 112)

Neuropeptide Y receptor
Neuropeptide Y mRNA; Proopiomelanocortin; Arcuate nucleus; Hybridization, in situ; Autoradiography (Garcia de Yebenes, E. (674) 112)

Neuropeptide Y-(13–36); PYY binding; Spontaneously hypertensive rat; Nucleus tractus solitarius; Autoradiography; Blood pressure; Intracerebroventricular injection; Rat brain (Aguirre, J.A. (684) 159)

Neurophysiology
Odorant exposure; Voltage-sensitive dye; Optical recording; Odorant identification; Rat (Youngentob, S.L. (670) 82)

Neuropil thread
Ballooned neuron; Corticobasal degeneration; Oxidative stress; Pick disease; Glial inclusion (Castellani, R. (696) 268)

Neuroplasticity
Dorsal rhizotomy; Immunoreactive dynorphin; Spinal cord; Cerebral area; Deafferentation pain; Deafferentation syndrome; Rat (Candeletti, S. (670) 289)

Brain; Arachidonate; Docosahexaenoate; Palmitate; Deoxyglucose; Quantitative autoradiography; Visual system; Orbital enucleation; Rat; Fatty acid; Lipid; Phospholipid; Glucose; Vision (Wakabayashi, S. (679) 110)

Neuroprotection
Ischemia; Sigma receptor; Hippocampus; Presynaptic potential (Shibata, S. (670) 337)

Alzheimer's disease; β-Amyloid; Calcium binding protein; Calretinin; Neurotoxicity (Pike, C.J. (671) 293)

Glial cell line-derived neurotrophic factor; Dopamine; Tyrosine hydroxylase; Substantia nigra; Striatum (Kearns, C.M. (672) 104)

Quinolinic acid; 6-Hydroxydopamine; Striatum; Substantia nigra; Dopaminergic system (Venero, J.L. (672) 153)

21-Aminosteroid; 2-Methylaminochroman; Cyanide; Iron toxicity; Primary neuronal culture; Dizocilpine (Müller, U. (678) 265)

Ischemia; Cardiac arrest; Thalamic reticular nucleus; α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionate antagonist (Ross, D.T. (683) 117)

Calcium channel; Diltiazem; Hypoxia; MK-801; Synergy (Schurr, A. (684) 233)

Organotypic hippocampal culture; Oxygen deprivation; Glucose deprivation; Glutamate receptor antagonists; Propidium iodide staining (Strasser, U. (687) 167)

N-Methyl-D-aspartate; Antisense oligodeoxynucleotide; Traumatic brain injury; Mortality; Behavioral recovery; Astrocytic reaction (Sun, F.-Y. (693) 163)

β-Cyclazocine; *N*-Methyl-D-aspartate receptor; Fura-2; Single-channel recording; Rate constant (Sawyer, D.C. (698) 30)

Cardiac arrest; Ischemia; Cerebellar degeneration; AMPA antagonist (Brasko, J. (699) 133)

Gerbil; Global ischemia; Microdialysis; Histology (Shuaib, A. (702) 199)

Glutamate; Intracellular calcium; Neuronal culture; Sigma ligand; Confocal microscopy (Klette, K.L. (704) 31)

Felbamate; *N*-Methyl-D-aspartate receptor; Strychnine-insensitive glycine antagonist; Excitotoxicity; Calcium; Cortical neuron (Kanthasamy, A.G. (705) 97)

Neurosecretory granule
Axonal reticulum; Nerve ligation; Noradrenergic neuron; Axonal transport; Nerve terminal; Immunocytochemistry (Quatacker, J. (680) 36)

Neurosteroid
Calcium; 6-Cyano-7-nitroquinoxaline-2,3-dione; Dizocilpine; Nimodipine; *N*-methyl-D-aspartate; Pregnenolone sulfate; Spermine (Fahey, J.M. (669) 183)

Adenosine; γ-Aminobutyric acid; Alphaxalone; Allopregnan; Purine; Hippocampus (Akhondzadeh, S. (677) 311)

Pregnenolone; Steroidogenesis; Brain; Japanese quail (Tsutsui, K. (678) 1)

Odor preference; Estrous female odor; Pregnenolone sulfate; *N*-Methyl-D-aspartate receptor; Male sexual interest; Olfactory response; Anxiety (Kavaliers, M. (682) 222)

Pregnenolone synthesis; $GABA_A$/benzodiazepine receptor; Rat retina (Guarneri, P. (683) 65)

Long-term potentiation; Ethanol; Dehydroepiandrosterone sulfate; *N*-Methyl-D-amphetamine; $GABA_A$; AMPA (Randall, R.D. (701) 238)

17β-Hydroxysteroid dehydrogenase; Rat brain; Glial cell; Estrogen (Pelletier, G. (704) 233)

Hepatic encephalopathy; Ammonia; Thioacetamide; Peripheral benzodiazepine receptor; Pregnenolone (Itzhak, Y. (705) 345)

Neurotensin
Substantia nigra; Dopaminergic neuron; Whole-cell recording; Cationic current; Inwardly rectifying potassium current; G-protein; Inositol 1,4,5-trisphosphate (Wu, T. (683) 242)

Striatum; Nucleus accumbens; Hybridization, in situ; Basal ganglia; Antipsychotic; γ-Aminobutyric acid (Decker, K.P. (691) 9)

Haloperidol; Microdialysis; Caudate putamen; Cortex; Dopamine (See, R.E. (704) 202)

Neurotoxicity
N-Methyl-D-aspartate; AIDS; Hydroxamate (Lockhart, B.P. (670) 313)

Alzheimer's disease; β-Amyloid; Calcium binding protein; Calretinin; Neuroprotection (Pike, C.J. (671) 293)

β-Amyloid; Membrane fluidity; Calcium signalling (Müller, W.E. (674) 133)

Sigma site; *N*-Methyl-D-aspartate; Kainate; Hypoxia; Kappa opioid (Lockhart, B.P. (675) 110)

Depolarization; Glutamate; *N*-Methyl-D-aspartate; Hippocampus; Ca^{2+}; Cl^- (Takahashi, M. (675) 249)

Sensitization; γ-Aminobutyric acid; Homogenate receptor binding; Dopamine (Lipton, J.W. (676) 378)

Neonatal; Muscarinic acetylcholine receptor; Behaviour; Insecticide; Organophosphate; Diisopropylfluorophosphate (Ahlbom, J. (677) 13)

L-DOPA; Parkinson's disease; Dopamine neuron; Rat mesencephalic cell culture; Ascorbic acid (Pardo, B. (682) 133)

Excitotoxicity; Glutamate; Malonate; Microdialysis; γ-Aminobutyric acid (Messam, C.A. (684) 221)

β-Amyloid; Alzheimer's disease; *N*-Methyl-D-aspartic acid; Nitric oxide; Calcium (Le, W.-D. (686) 49)

Alzheimer's disease; Sodium butyrate; Tau phosphorylation (Nuydens, R. (688) 86)

MPTP; MPP^+; Dopamine; Body temperature; Deprenyl; Heat shock protein (Freyaldenhoven, T.E. (688) 161)

Glutamate; AMPA; Kainate; Cell culture; Excitotoxicity; Spinal cord; Ca^{2+}; Calcium (Yin, H.-z. (689) 265)

Aggregating brain cell culture; Early development; Trimethyltin (TMT); Microglia; Synaptophysin; Synapsin I; GAP-43 (Monnet-Tschudi, F. (690) 8)

β-Amyloid; Glutamate; Excitotoxicity; Neurons; Astrocyte; Hippocampal cell culture; Cortical cell culture; Alzheimer's disease (Gray, C.W. (691) 169)

Phospholipase A_2; Melittin; Neuronal culture; $[Ca^{2+}]_i$; Seizure; Rat (Clapp, L.E. (693) 101)

Excitatory amino acid; Lithium; Passive avoidance; Basal forebrain (Pascual, T. (695) 289)

Excitatory amino acid; *N*-Methyl-D-aspartate antagonist; Dizocilpine maleate; MK-801; Cingulate cortex; Neuropathology; Rat (Fix, A.S. (696) 194)

Alzheimer's disease; β-Amyloid; Glycosaminoglycan; Heparan sulfate; Chondroitin sulfate; Neurodegeneration; Plaque (Woods, A.G. (697) 53)

Manganese; Ferrous citrate; Lipid peroxidation; Dopamine; Nigrostriatal neuron; Free radical; Mn-SOD (Sziráki, I. (698) 285)

Neuronal degeneration; Calcium; Non-NMDA receptor (Akbarian, S. (699) 297)

6-Hydroxydopamine; L-DOPA therapy; Parkinson's disease; Dopamine carrier (neuronal); Mouse (Naudin, B. (701) 151)

Acromelic acid; Kainic acid; AMPA; Excitatory amino acid; Glutamate receptor; Spastic paraplegia; Spinal cord (Kwak, S. (702) 61)

HIV-1; gp120; Midbrain culture; *N*-Methyl-D-aspartate; Dopamine uptake (Bennett, B.A. (705) 168)

Methylmercury; Postnatal development; Cerebral cortex; Hippocampus; Rat (Wakabayashi, K. (705) 267)

Neurotransmitter release
Invertebrate neuropeptide; FMRFamide-related peptide (Noronha, K.F. (673) 70)

Neurotransmitter turnover rate
Cocaine; Cocaine self-administration; Dopamine; Noradrenaline; Serotonin; γ-Aminobutyric acid; Glutamate; Aspartate (Dworkin, S.I. (682) 116)

Neurotrophic
S100; Calcium; Hippocampus; Glucose; Mitochondria (Barger, S.W. (677) 167)

Retrograde axonal transport; Phosphatidylinositol 3-kinase; PI 3-kinase; ERK; MEK; MEK kinase; GAP-43; Signal transduction (Johanson, S.O. (690) 55)

Neurotrophic factor
rhNGF; rhbFGF; Dose–response; Cholinergic degeneration; Fimbria-fornix; Transection; Hippocampus (Emmett, C.J. (673) 199)

Sciatic nerve; Conditioned medium; PC12 cell; Chick ganglia; Dorsal root ganglion; Ciliary ganglion (Villegas, G.M. (685) 77)

Neurotrophin
NGF synthesis; NGF mRNA; Astrocyte; Guanosine; GTP; ATP; Adenosine; Cyclic AMP (Middlemiss, P.J. (677) 152)

Basal forebrain; Nerve growth factor; Brain-derived neurotrophic factor; Neuronal survival (Nonomura, T. (683) 129)

Dental nerve; Development; Nerve injury; TrkB; Immunocytochemistry (Foster, E. (686) 123)

Neuropathy; Neuropeptide; Growth factor (Ohara, S. (699) 143)

Axotomy; Sciatic nerve; Spinal motoneuron; Cell death (Schmalbruch, H. (700) 254)

Intracellular free calcium; Septal culture; Indo-1; Ethanol neurotoxicity; NGF (Webb, B. (701) 61)

Parkinson's disease; Epidermal growth factor; Basic fibroblast growth factor; Glia; Ischemia; Neuronal survival; MPP^+ (Akaneya, Y. (704) 175)

mRNA expression; Immunolesion; Cholinergic basal forebrain neuron (Yu, J. (705) 247)

Neurotrophin-3
Gene targeting; *lacZ*; *trk*C; Spinal cord; Sensory neuron (Tojo, H. (669) 163)

Axotomy; Degeneration; Survival; Ciliary neurotrophic factor (Weibel, D. (679) 249)

Neurotrophin receptor
Retina; Development; Ganglion cell layer; Inner plexiform layer; Inner nuclear layer; Hybridization, in situ (Ugolini, G. (704) 121)

Neurotropism
Herpes simplex virus type 1; ACTH; Corticosterone; Corticotropin releasing factor-41 (Ben-Hur, T. (702) 17)

Neutral red
Cerebral ischemia; Brain pH; Brain lactate; Reperfusion; Cardiac arrest; Brain temperature (LaManna, J.C. (687) 175)

Newborn
Cyclic GMP; Cerebral circulation (Devine, J.O. (675) 257)

Endorphin; Methionine-enkephalin; Respiration; Hypoxia; Microdialysis; Swine; Development (Yan, S. (687) 217)

Brain slice; Ornithine decarboxylase; Hypoxia/ischemia; Development (Packianathan, S. (688) 61)

Cerebral circulation (Armstead, W.M. (689) 183)

Permeability; Blood–brain barrier; Unbound bilirubin (Lee, C. (689) 233)

Human; Brainstem; Neurokinin-1; Substance P; Binding site; Autoradiography (Jordan, D. (695) 117)

Asphyxia; Na^+,K^+-ATPase; Brain; Striatum; Reoxygenation (Goplerud, J.M. (696) 161)

Newborn rat
Facial nucleus; Estrogen receptor; Aromatization (Orikasa, C. (693) 112)

Nf-1 cell
c-*fos* gene; Metallothionein promoter; Exogenous control; NRK cell; Transplantation; Angiogenesis; Neovascularization; Gene therapy (Asakuno, K. (702) 23)

NG108-15
Cyclopiazonic acid; Ca^{2+} entry blocker; Calmodulin antagonist; Intracellular Ca^{2+} store; Capacitative Ca^{2+} entry (Lo, T.-M. (704) 10)

NG108-15 cell
δ Opioid receptor; Naltrindole; Hypoxia; Heme protein; Cobalt; 4,6-Dioxoheptanoic acid (Mayfield, K.P. (676) 358)

NGF
Amyloid precursor protein; Matrix protein; Signal transduction; PC-12 cell; Olfactory neuroblast; Alzheimer's disease (Luo, Y.Q. (681) 65)

Intracellular free calcium; Neurotrophin; Septal culture; Indo-1; Ethanol neurotoxicity (Webb, B. (701) 61)

rhNGF
rhbFGF; Dose–response; Cholinergic degeneration; Neurotrophic factor; Fimbria-fornix; Transection; Hippocampus (Emmett, C.J. (673) 199)

NGF mRNA
NGF synthesis; Astrocyte; Guanosine; GTP; Neurotrophin; ATP; Adenosine; Cyclic AMP (Middlemiss, P.J. (677) 152)

NGF synthesis
NGF mRNA; Astrocyte; Guanosine; GTP; Neurotrophin; ATP; Adenosine; Cyclic AMP (Middlemiss, P.J. (677) 152)

N^{ω}-Nitro-L-arginine methyl ester
Nitric oxide; Pentylenetetrazol; Kindling; Epilepsy; Glutamate binding; Rat (Becker, A. (688) 230)

Nialamide
Piriform cortex; Serotonin; Phaseolus vulgaris leucoagglutinin; Cholera toxin B subunit; Brainstem serotonergic nuclei; Colchicine (Datiche, F. (671) 27)

Nickel regeneration
Microvillar cell; Toxic insult; Methyl bromide; Olfactory epithelium; Electron microscopy (Miller, M.L. (669) 1)

Nick-end labeling
DNA fragmentation; Global brain ischemia; Granular cell; Purkinje cell; Apoptosis (Hara, A. (697) 247)

Nicotine
Ciliary ganglion cell; Fura-2 microfluorometry; SBFI microfluorometry; Muscarine; Ca^{2+} channel blocker (Sorimachi, M. (669) 26)

Locomotion; Ventral tegmentum; Mesolimbic; Dopamine; Rat (Museo, E. (670) 257)

Rat hippocampus; Neuronal nicotinic acetylcholine receptor; Immunocytochemistry; Upregulation; Methyllycaconitine; [^{3}H]QNB (Barrantes, G.E. (672) 228)

Cognition-enhancing; Aging; Acetylcholine; Nicotinic agonist; Rat; Age-associated memory impairment (Arendash, G.W. (674) 252)

Dopamine D_2 receptor; Receptor–receptor interaction; Tyrosine hydroxylase; Hybridization, in situ (Li, X.-M. (679) 157)

Neuropeptide Y; Hypothalamus; Energy balance; Rat (Frankish, H.M. (694) 139)

Ciliary ganglion cell; Fura-2 microfluorometry; Muscarine; Ca^{2+} channel antagonist; Mn^{2+} influx (Sorimachi, M. (696) 67)

Nicotinic acetylcholine receptor
Epibatidine; Bay K 8644; Analgesia; Calcium channel (Bannon, A.W. (678) 244)

Nicotinic acetylcholine receptor channel
Rat muscle; Dissociated muscle fibre; Forskolin; Cyclic AMP-dependent protein kinase (Lorenzon, P. (703) 100)

Nicotinic agonist
Cognition-enhancing; Aging; Nicotine; Acetylcholine; Rat; Age-associated memory impairment (Arendash, G.W. (674) 252)

Nigrostriatal
Basal ganglia; Substantia nigra; Dopamine; Tyrosine hydroxylase; Mesolimbic (Tan, Y. (689) 151)

Caudate nucleus; Estrogen; Antiestrogen; Uterus (McDermott, J.L. (698) 248)

Nigrostriatal cell
β-Phenylethylamine; Dopamine (Rodriguez, M. (703) 201)

Nigrostriatal dopaminergic neuron
Anandamide (arachidonylethanolamide); Δ^9-Tetrahydrocannabinol; Cannabinoid receptor; Dopamine; Motor activity; Stereotypic behavior (Romero, J. (694) 223)

Nigrostriatal lesion
[^{3}H]Serotonin uptake autoradiography; Serotonin axon terminal; Dopamine denervation; Caudate–putamen (Mrini, A. (669) 303)

Nigrostriatal neuron
Manganese; Ferrous citrate; Lipid peroxidation; Neurotoxicity; Dopamine; Free radical; Mn-SOD (Sziráki, I. (698) 285)

Nigro-striatal pathway
Calretinin; Tract tracing; Retrograde labelling; Immunohistochemistry; Calcium binding protein (Krzywkowski, P. (705) 273)

Nimodipine
Calcium; 6-Cyano-7-nitroquinoxaline-2,3-dione; Dizocilpine; Neurosteroid; *N*-methyl-D-aspartate; Pregnenolone sulfate; Spermine (Fahey, J.M. (669) 183)

Calcium channel; GT1-7 neuron; Voltage-dependent Ca^{2+} channel; BayK 8644; Conotoxin; Hypothalamus; GnRH (Javors, M.A. (694) 49)

Serotonin release; Culture; Fenfluramine; 3,4-Methylenedioxyamphetamine; *p*-Chloroamphetamine; Raphe; Conotoxin; Fluoxetine (Wichems, C.H. (695) 10)

Nipecotic acid
Seizure; Brain slice; Epilepsy; γ-Aminobutyric acid; Anticonvulsant (Honmou, O. (692) 273)

Nitrate
Cyclic GMP; Cerebral blood flow; Cerebral oxygen consumption; Guanylate cyclase; Rat (Lu, X. (669) 35)

Nitrendipine
Hippocampus; Selective vulnerability; Global cerebral ischemia; Norepinephrine release; Voltage-dependent calcium channel; *N*-Methyl-D-aspartate receptor-channel complex (Hurt, K.J. (673) 226)

Nitric oxide
NADPH diaphorase; Synaptophysin; SNAP-25; Cerebellum; Modular organization; Monkey (Yan, X.X. (669) 285)

Ionic mechanism; Increased Na^+ conductance; Cyclic GMP; *Aplysia* neurons (Sawada, M. (670) 248)

Human; Aging; Basal forebrain; Histochemistry; Nitric oxide synthase; Plasticity (Benzing, W.C. (670) 351)

Arginine; Autoregulation; Cerebral blood flow; Hypertension; Nitric oxide synthase; Rat (Talman, W.T. (672) 48)

Glutamate; Hippocampus; Kainic acid; Microdialysis; Rat; Seizure (Rigaud-Monnet, A.-S. (673) 297)

Opioid peptide; Neuronal release; Rat (Hara, S. (675) 190)

Hyperglycemia; Magnetic resonance imaging; Cerebral ischemia; Reperfusion injury (Quast, M.J. (677) 204)

Seizure; Pilocarpine; Kainic acid; *N*-Methyl-D-aspartate receptor; Nitro-L-arginine (Maggio, R. (679) 184)

Morphine withdrawal; Naloxone; *N*-Methyl-D-aspartate receptor; Spinal cord; Blood pressure; Heart rate; Behavior (Buccafusco, J.J. (679) 189)

Methamphetamine; Nitric oxide synthase inhibitor; *L*-NAME (Abekawa, T. (679) 200)

NADPH-diaphorase; Enzyme histochemistry; Brain; Goldfish (Villani, L. (679) 261)

Human medulla; Cerebral blood vessel; Catecholamine; Ventrolateral medulla (Benarroch, E.E. (684) 215)

β-Amyloid; Alzheimer's disease; Neurotoxicity; *N*-Methyl-D-aspartic acid; Calcium (Le, W.-D. (686) 49)

Astrocyte; Microglia; Cerebellum; Hippocampus; Cyclic GMP; Noradrenaline; Glutamate (Agulló, L. (686) 160)

N^{ω}-Nitro-L-arginine methyl ester; Pentylenetetrazol; Kindling; Epilepsy; Glutamate binding; Rat (Becker, A. (688) 230)

Long-term potentiation; Medial amygdala; Lateral amygdala; In vitro (Watanabe, Y. (688) 233)

Sympathetic preganglionic neuron; Superior cervical ganglion; Hypertensive rat (Tang, F.R. (691) 153)

Retinal spreading depression; Cyclic GMP; Migraine (Ulmer, H.J. (691) 239)

Circadian rhythm; Suprachiasmatic nucleus; Fos; Photic entrainment (Weber, E.T. (692) 137)

Alzheimer's disease; Microglia; β-Amyloid; IFN-γ (Goodwin, J.L. (692) 207)

Nitric oxide synthase; Calcitonin gene-related peptide; Microvessel; Hippocampus; Vasodilation (Fergus, A. (694) 78)

Learning; Memory; Hemicholinium-3; Choline acetyltransferase (Tobin, J.R. (694) 177)

Rat pinealocyte; Cyclic GMP; Ca^{2+}; Phoshodiesterase; Protein kinase C (Spessert, R. (694) 207)

Brainstem; Fos; Histochemistry; Hypothalamus; Medulla; NADPH-Diaphorase; Nitroglycerin (Tassorelli, C. (695) 37)

c-*fos*; Cyclic AMP response element binding protein; Phosphorylation; Retinal pigment epithelium (Ohki, K. (696) 140)

Retinal ganglion cell; Glutamate; Development; Chondroitin sulfate proteoglycan (Nichol, K.A. (697) 1)

Cortex; Dendritic spine; Non-pyramidal cell; γ-Aminobutyric acid (Gabbott, P.L.A. (698) 253)

Dopamine; Methamphetamine; Microdialysis (Bowyer, J.F. (699) 62)

Clonidine HCl; L-N^G-nitro-arginine methyl ester HCl (LNNA); Feeding behavior; Chicken (Choi, Y.-H. (699) 161)

Interneurons; Inhibition; Long-term potentiation; Limbic cortex (Gabbott, P.L.A. (699) 321)

N-Methyl-D-aspartate; Dopamine; Nucleus accumbens; N^G-Nitro-L-arginine; Microdialysis (Ohno, M. (699) 332)

Adenosine; Hypercapnia; Hypoxia; *N*-Methyl-D-aspartate; Pial arteriole; Tetrodotoxin (Pelligrino, D.A. (704) 61)

Nitric Oxide
Nociception; Spinal cord (Chapman, V. (697) 258)

Nitric oxide synthase
Human; Aging; Basal forebrain; Histochemistry; Nitric oxide; Plasticity (Benzing, W.C. (670) 351)

Arginine; Autoregulation; Cerebral blood flow; Hypertension; Nitric oxide; Rat (Talman, W.T. (672) 48)

Quinolinic acid; Tyrosine hydroxylase; Excitotoxicity; L-NAME (Connop, B.P. (676) 124)

NADPHd; Retina; Vasculature; Co-localisation; Human; Rat (Roufail, E. (684) 36)

Dorsal raphe nucleus; β-Endorphin; Immunocytochemistry; Synapse; Electron microscopy (Wang, Q.-P. (684) 185)

NADPH-diaphorase; Retina; Knock-out mice; Electron microscopy; BSPT-formazan; Membrane (Darius, S. (690) 231)

Cyclic GMP; 3,4-Diaminopyridine; Noradrenaline release; Rat hippocampus (Lauth, D. (692) 174)

Retinal ganglion cell; Müller cell; Amacrine cell; Blood vessel (Huxlin, K.R. (692) 195)

Nitric oxide; Calcitonin gene-related peptide; Microvessel; Hippocampus; Vasodilation (Fergus, A. (694) 78)

Human cerebral artery; Endothelium; Ultrastructural localization; Translocation; Bradykinin (Fukuda, S.-i. (696) 30)

Neuron; Glial; Tissue culture; NADPH diaphorase; Survival (Page, G.K. (697) 157)

Endotoxin; Corticotropin-releasing factor; Hypothalamus; Vasopressin (Lee, S. (705) 136)

Nitric oxide synthase inhibitor
Methamphetamine; Nitric oxide; *L*-NAME (Abekawa, T. (679) 200)

Nitric oxide synthase-like immunoreactivity
Epiplexus cell; Choroid epithelial cell; Lipopolyssacharide; Postnatal rat (Lu, J. (699) 275)

Nitroarginine
N^G-Nitro-L-arginine methyl ester; Local cerebral blood flow; [^{14}C]Iodoantipyrine; Cerebral blood flow; Brain; Autoregulation (Takahashi, S. (678) 21)

Nitroglycerin
Brainstem; Fos; Histochemistry; Hypothalamus; Medulla; NADPH-Diaphorase; Nitric oxide (Tassorelli, C. (695) 37)

Nitro-L-arginine
Nitric oxide; Seizure; Pilocarpine; Kainic acid; *N*-Methyl-D-aspartate receptor (Maggio, R. (679) 184)

Endothelin-1; Cerebrospinal fluid; Cerebral ischemia/reperfusion (Spatz, M. (684) 99)

***N*-Nitro-L-arginine**
Endothelium; Superoxide dismutase; Indomethacin; Hypertension; Cranial window (Riedel, M.W. (671) 21)

N^G-Nitro-L-arginine
N-Methyl-D-aspartate; Dopamine; Nitric oxide; Nucleus accumbens; Microdialysis (Ohno, M. (699) 332)

Nitro-L-arginine methyl ester
Cerebral blood flow; Hyperglycemia; Mannitol; Laser-Doppler flowmetry; Indomethacin; Spreading cortical depression; Rat (Duckrow, R.B. (703) 145)

N^G-Nitro-L-arginine methyl ester
Nitroarginine; Local cerebral blood flow; [^{14}C]Iodoantipyrine; Cerebral blood flow; Brain; Autoregulation (Takahashi, S. (678) 21)

3-Nitropropionic acid
Striatum; Quinolinic acid; Huntington's disease; Apomorphine; Rotational behavior; Motor behavior asymmetry (Borlongan, C.V. (676) 231)

Huntington's disease; Progressive spontaneous locomotor activity changes; Striatum; Systemic injection (Borlongan, C.V. (697) 254)

Nitroxidergic nerve
Prejunctional inhibition; Acetylcholine; ω-Conotoxin; Vasoactive intestinal polypeptide; Magnesium (Toda, N. (700) 213)

NK cell activity
β-Endorphin; Dynorphin; Conditioning (Hsueh, C.-M. (678) 76)

NK-1 receptor
Spontaneous alternation performance; Substance P; WIN 62577; Mouse (Ukai, M. (673) 335)

NMDA receptor
Amyotrophic lateral sclerosis; Motor neurone disease; Spinal cord; Glutamate receptor; NR1 mRNA; *c-jun*; Glycine transporter (Virgo, L. (676) 196)

NMDAR1 subunit
CGP-39653; Excitotoxicity; Motor neuron; Nociception; Peripheral neuropathy; Dorsal horn; Neural transplant (Hama, A.T. (687) 103)

L-NMMA
Rat; Fluorescein isothiocyanate albumin; Microcirculation; Pial venule; L-NAME (Mayhan, W.G. (686) 99)

^{1}H-NMR spectroscopy
Modafinil; Brain metabolism; Excitatory amino acid; Inositol; Creatine-phosphocreatine (Piérard, C. (693) 251)

NO
NO-generating drug; (Na^+,K^+)-ATPase; Cerebral cortex; Porcine; Oxidative NO derivative (Sato, T. (704) 117)

Nociception
Pain; Colorectal distension; Viscera; Pentobarbital (Follett, K.A. (669) 157)

Hyperreflexia; Opiate; Electromyography; RIII reflex; Morphine (Yeomans, D.C. (670) 297)

MK-801; *N*-Methyl-D-aspartate; Sensitization; Flexor reflex; Plasticity (Xu, X.-J. (670) 342)

Visceral; Colon; Colorectal distension; Inflammation; Acetic acid (Burton, M.B. (672) 77)

Antinociception; Substance P; Naloxone; Opioid; Tail-flick test; Capsaicin; Spinal cord; Primary afferent; C-fiber; CP-96,345; CP-96,344; CP-99,994 (Yashpal, K. (674) 97)

Carrageenan inflammation; Indomethacin; Krox-24 expression; Spinal cord (Buritova, J. (674) 211)

Substance P receptor; Spinal cord; Parabrachial nucleus; Rat (Ding, Y.-Q. (674) 336)

Excitatory amino acid; Hyperalgesia; Allodynia; Spinal cord; Chronic pain; Neural graft; Chromaffin cell (Siegan, J.B. (680) 88)

Tolerance, opioid; Inflammation, chronic; Analgesia; Stress-induced analgesia; Tail-flick latency; Complete Freund's adjuvant; Pain, chronic (Gutstein, H.B. (680) 173)

CGP-39653; Excitotoxicity; Motor neuron; NMDAR1 subunit; Peripheral neuropathy; Dorsal horn; Neural transplant (Hama, A.T. (687) 103)

Radioimmunoassay; PAG; γ-Aminobutyric acid; Bicuculline; Opioid peptide (Williams, F.G. (690) 207)

Dorsal horn; Pain; Spinal cord slice; Dorsal root potential; $GABA_A$ receptor; Presynaptic inhibition (Shimizu, T. (691) 92)

Brain mapping; Hypothalamus; Thalamus; Paraventricular nucleus; Microinjection; Anorexia; Fever (Sellami, S. (694) 69)

Viscera; Thalamus; Reproductive organ; Pain (Berkley, K.J. (695) 92)

Nitric Oxide; Spinal cord (Chapman, V. (697) 258)

N-Methyl-D-aspartate receptor; AMPA receptor; Spinal cord; Central hypersensitivity; Rat (Chapman, V. (703) 45)

Morphine; c-Fos; Spinal cord; Time course (Honoré, P. (705) 91)

Nociceptive modulation
Isoflurane; General anesthetic; MAC; Pain; Raphe magnus (Leung, C.G. (699) 71)

Nodosal ganglion
Nucleus basalis magnocellularis; Autotransplantation; Bifemelane hydrochloride; Cholinergic marker; Event-related potential (P300) (Ikeda, K. (688) 171)

Nodose ganglia
[^{3}H]Resiniferatoxin autoradiography; Vanilloid receptor; Capsaicin-sensitive neuron; Axonal transport; Capsazepine (Szallasi, A. (703) 175)

Nodose ganglion
Calcium-binding protein; Carotid body; CGRP; Glossopharyngeal nerve; Petrosal ganglion; Tyrosine hydroxylase; Vagus nerve (Ichikawa, H. (675) 337)

Glutamate; Amino acids; Baroreceptor reflex; Nucleus tractus solitarii; Denervation; Blood pressure (Colombari, E. (677) 110)

Nodose neuron
mGLuR; Potassium channel (Hay, M. (698) 169)

NO-generating drug
(Na^+,K^+)-ATPase; Cerebral cortex; Porcine; NO; Oxidative NO derivative (Sato, T. (704) 117)

Nomifensine
Cyclic voltammetry, in vivo; 5-Hydroxytryptamine; Dopamine; Uptake transporter; Fluoxetine (Jackson, B.P. (674) 163)

Ethanol; *N*-Methyl-D-aspartate; Dopamine release; Uptake; Striatum; Electrochemistry, in vivo (Lin, A.M.-Y. (696) 15)

Nonmyelinated nerve fibre
Primary afferent fibre; Dichotomizing axon (McCarthy, P.W. (704) 79)

Non-NMDA receptor
Neuronal degeneration; Calcium; Neurotoxicity (Akbarian, S. (699) 297)

Deafferentation; c-*fos*; Subthalamic nucleus; Substantia nigra pars reticulata; Transneuronal cell death (Saji, M. (703) 165)

Nonphotic
Activity; c-*fos*; Hamster; Immunocytochemistry; Intergeniculate leaflet; Neuropeptide Y; Rhythm; Suprachiasmatic nucleus (Janik, D. (698) 137)

Non-photic stimulus
Circadian rhythm; Suprachiasmatic nucleus; Intergeniculate leaflet; Fos immunoreactivity (Edelstein, K. (690) 254)

Non-pyramidal cell
Cortex; Dendritic spine; Nitric oxide; γ-Aminobutyric acid (Gabbott, P.L.A. (698) 253)

Non-REM sleep
Adenosine; Electroencephalography; Power spectrum; REM sleep; Sleep-homeostasis (Landolt, H.-P. (675) 67)

Preoptic area; Anterior hypothalamus; Basal forebrain; Sleep–wake regulation; Thermosensitivity (Alam, Md.N. (696) 221)

Non-shivering thermogenesis
Brown adipose tissue; Thermoregulation; Decerebration; Neonate; Hypothalamus (Blumberg, M.S. (699) 214)

Noradrenalin
Pregnancy; Parturition; Maternal behavior; Preoptic area; Brainstem; Oxytocin (Luckman, S.M. (669) 115)

Noradrenaline
Microdialysis; Paraventricular nucleus; Restraint; Tail-pinch; Desensitization; Stress; Adaptation (Shibasaki, T. (670) 169)

Adrenaline; Brainstem; Fos; Immunocytochemistry; Luteinising hormone (Condé, G.L. (672) 68)

α_1-Adrenergic receptor; α_{1A} and α_{1B} subtype; Cerebral cortex; Autoradiography; Seizure; Kindling; Epilepsy (Gundlach, A.L. (672) 214)

Glycogen; Glucose; Olfactory bulb; Brain development; Norepinephrine; Carnosine (Coopersmith, R. (674) 230)

Transplantation; Spinal cord; Quantitative autoradiography; α_1-Adrenoceptor; [^{3}H]Prazosin (Roudet, C. (677) 1)

Olfactory bulb; Evoked field potential; Push–pull perfusion; Rat (Mouly, A.-M. (681) 47)

Cocaine; Cocaine self-administration; Neurotransmitter turnover rate; Dopamine; Serotonin; γ-Aminobutyric acid; Glutamate; Aspartate (Dworkin, S.I. (682) 116)

Astrocyte; Microglia; Cerebellum; Hippocampus; Cyclic GMP; Nitric oxide; Glutamate (Agulló, L. (686) 160)

Microdialysis; Hypothalamus; Paraventricular nucleus; Neuropeptide Y; Stress; Opioid system (Shibasaki, T. (688) 189)

Dihydroxyphenylacetic acid; 5-Hydroxyindoleacetic acid; Homovanillic acid; Hypothalamic paraventricular nucleus; Microdialysis, in vivo; Neuropeptide Y; Rat (Pavia, J.M. (690) 108)

Sexual behavior; Prefrontal cortex; Amphetamine; Caffeine; Dopamine (Ågmo, A. (696) 187)

Brain (rat); Dopamine; Electroconvulsive stimulus (ECS); Neuropeptide; Serotonin (Stenfors, C. (698) 39)

Noradrenaline release
Nitric oxide synthase; Cyclic GMP; 3,4-Diaminopyridine; Rat hippocampus (Lauth, D. (692) 174)

Noradrenergic neuron
Aromatic L-amino acid decarboxylase; L-5-Hydroxytryptophan; Serotonin; Monoamine oxidase; Dopaminergic neuron; Substantia nigra pars compacta; Locus coeruleus (Arai, R. (669) 145)

Axonal reticulum; Nerve ligation; Axonal transport; Neurosecretory granule; Nerve terminal; Immunocytochemistry (Quatacker, J. (680) 36)

Noradrenergic system
Social isolation; Stress; Pentobarbital; Hypnotic activity; CRF; Aggressive behavior (Ojima, K. (684) 87)

Fos; Stress; Prazosin; Betaxolol; ICI118551; Fluphenazine; Ketanserin; WAY 100135 (Stone, E.A. (694) 279)

Nor-binaltorphimine
Opioid; Gene expression; Prodynorphin mRNA; Chronic treatment; Rat brain; Naloxone; Naltrexone (Romualdi, P. (672) 42)

U50,488; Spiradoline; Morphine; Cocaine; Kappa opioid; Drug self-administration (Glick, S.D. (681) 147)

Norbinartorphimine
κ-Opioid receptor; U50488; P-type Ca^{2+} channel; G-protein; Dynorphin A; Purkinje cell; Rat (Kanemasa, T. (702) 207)

Norepinephrine
Sigma receptor; Hippocampus; *N*-Methyl-D-aspartate receptor; (+)Pentazocine; BD737; DuP 734 (Gonzalez-Alvear, G.M. (673) 61)

Naloxone; Aminophylline; 5′-*N*-Ethylcarboxamidoadenosine; Morphine; Serotonin; Antinociception; Tail-flick; Analgesia (Yang, S.-w. (673) 170)

Cortisol; Hippocampus; Urine analysis; Stress; *Tupaia belangeri* (Fuchs, E. (673) 275)

Cortex; Recovery; Motor function; Stroke; Trauma; Rat (Goldstein, L.B. (674) 167)

Chemoreceptor pathway; Nucleus tractus solitarius; Tyrosine hydroxylase; Brainstem (Soulier, V. (674) 188)

Glycogen; Glucose; Olfactory bulb; Brain development; Noradrenaline; Carnosine (Coopersmith, R. (674) 230)

Neuromodulation; Somatosensory cortex; Intracellular; γ-Aminobutyric acid (Sessler, F.M. (675) 171)

Cerebellum; Aging; Motor learning; Rat; β-Adrenergic receptor (Gould, T.J. (684) 150)

Purkinje cell; Microiontophoresis; γ-Aminobutyric acid; Alcohol; Potentiation; Modulation (Lee, R.-S. (687) 12)

Vasopressin; Neuropeptide Y; Blood pressure; Heart rate; Sexual dimorphism (Sato, K. (689) 71)

Dopamine; Hypothalamus; Estrous cycle; Aging; Push–pull perfusion (ThyagaRajan, S. (689) 122)

Adrenergic receptor; Isoproterenol; Adenosine; Astrocyte; Cyclic AMP transport; Cerebral cortex; Cyclic AMP; Phosphodiesterase; Astrocyte; Secretion; Transport (Rosenberg, P.A. (692) 227)

Serotonin; Dopamine; Monoamine metabolite; 5,7-Dihydroxytryptamine; Alcohol drinking; Ethanol; Brain region; Dorsal raphe nucleus; Median raphe nucleus; Sprague–Dawley rat (Adell, A. (693) 70)

Serotonin; 5-Hydroxytryptamine; Tianeptine; Antidepressant (Frankfurt, M. (696) 1)

Luteinizing hormone; Opioid receptor; Medial preoptic area; Pregnancy; Push-pull perfusion; HPLC (Zhen, S. (698) 121)

α-1 Adrenergic receptor; Amygdala; Antidepressant drug; Desipramine; REM sleep (Ross, R.J. (701) 129)

Guinea pig; Ambiguus neuron; Rectification; Afterhyperpolarization; Ca^{2+}-mediated K^+ current; Ih; Signal-to-noise ratio (Nishimura, Y. (702) 213)

Fever; Lipopolysaccharide; Rabbit; α_1-Adrenoceptor; α_2-Adrenoceptor subtype; Sympathetic nervous system (Bencsics, A. (705) 302)

Norepinephrine-pharmacology
Sleep cycle; State transition; Fourier analysis; Acetylcholine-pharmacology; Serotonin-pharmacology (Benington, J.H. (681) 141)

Norepinephrine release
Hippocampus; Selective vulnerability; Global cerebral ischemia; Voltage-dependent calcium channel; Nitrendipine; *N*-Methyl-D-aspartate receptor-channel complex (Hurt, K.J. (673) 226)

Hippocampus; α_2-Adrenoceptor subtype; ARC 239; BRL 44408; Microdialysis; Receptor binding (Kiss, J.P. (674) 238)

Oxytocin; Hypothalamic slice; Estradiol; Progesterone (Etgen, A.M. (703) 242)

Norepinephrine uptake
Opioid; Development; Cyclic AMP; Tyrosine hydroxylase (Sklair-Tavron, L. (702) 117)

Noribogaine
Ibogaine; Desmethyl ibogaine; Opioid receptor (Pearl, S.M. (675) 342)

Normal tau
Alzheimer's disease; D-Aspartate; PHF-tau (Kenessey, A. (675) 183)

Northern blot
Growth inhibitory factor; Stab wound; Gliosis; Reactive astrocyte; Alzheimer's disease; Western blot (Hozumi, I. (688) 143)

Northern blotting
Heat shock cognate protein 70; Heat shock protein; Restraint-water immersion stress; Cerebral cortex; Stomach; Rat; mRNA (Fukudo, S. (675) 98)

NOS
NADPH-d; NOS-inhibitor; Facial nerve avulsion; Facial motor neuron; Quantitative analysis; Neurodestruction (Ruan, R.-S. (698) 163)

NOS-inhibitor
NOS; NADPH-d; Facial nerve avulsion; Facial motor neuron; Quantitative analysis; Neurodestruction (Ruan, R.-S. (698) 163)

Novel environment
Stress; Corticosterone; Hypothalamic-pituitary-adrenal axis; Novelty; Sensitization; Context-specific sensitization; Environment-specific sensitization; Rotational behavior; Locomotor activity; Rearing behavior; Rat (Badiani, A. (673) 13)

Novel environments
Rat strain; Tryptophan hydroxylase; Serotonin-1A receptors; Hypothalamo-pituitary-adrenal axis; Anxiety; Locomotor activity (Chaouloff, F. (693) 169)

Novelty
Stress; Corticosterone; Hypothalamic-pituitary-adrenal axis; Novel environment; Sensitization; Context-specific sensitization; Environment-specific sensitization; Rotational behavior; Locomotor activity; Rearing behavior; Rat (Badiani, A. (673) 13)

Conditioning; Context-specific sensitization; Environment-specific sensitization; Stress; Rotational behavior; Striatum; Dopamine; Rat (Badiani, A. (674) 291)

NPY
Feeding; Peptide; Insulin; Glucose; Immediate-early gene (Lambert, P.D. (670) 59)

Circadian; Phase shift; Wheel running; Hamster; Suprachiasmatic nucleus (Biello, S.M. (673) 25)

γ-Aminobutyric acid; $GABA_A$; Circadian rhythm (Huhman, K.L. (675) 333)

5-Hydroxytryptamine; Methysergide; Hypothalamus; Rat (Dryden, S. (699) 12)

NR-1
c-*jun*; mRNA; Nerve crush; Glutamate receptor; Axotomy; Development (Hay, C. (704) 145)

NRK cell
c-*fos* gene; Metallothionein promoter; Exogenous control; Nf-1 cell; Transplantation; Angiogenesis; Neovascularization; Gene therapy (Asakuno, K. (702) 23)

NR1 mRNA
Amyotrophic lateral sclerosis; Motor neurone disease; Spinal cord; Glutamate receptor; NMDA receptor; c-*jun*; Glycine transporter (Virgo, L. (676) 196)

Nuclear translocation
G-protein; Dorsal root ganglion; Retrograde axonal transport; Peptide antibody (Hendry, I.A. (700) 157)

Nuclease protection assay
LIF; IL-1β; Axotomy; Receptor; Substance P; Sympathetic; Regulation; mRNA; Schwann cell; Fibroblast (Ludlam, W.H. (685) 12)

Nucleoside diphosphatase
Microglia; Neuroglia; Histochemistry; Hypomyelination; Mutant (Vela, J.M. (694) 287)

Nucleus
Serotonin $5\text{-}HT_2$ receptors; Serotonin $5\text{-}HT_3$ receptors; Supersensitivity; Tractus solitarius; Blood pressure; Hypertensive rat (Merahi, N. (669) 130)

μ-Calpain; Proteinase; Proenzyme; Calcium; Autodigestion; Immunohistochemistry; Neuron (Onizuka, K. (697) 179)

Nucleus accumbens
Hippocampal formation; Caudate–putamen; AMPA; $GABA_A$; $GABA_B$ (Finch, D.M. (670) 233)

Cocaine; Sulpiride; SCH-23390; Dopamine receptor; D1-like; D2-like; *N*-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Receptor occupancy; Locomotor activity; Stereotypy (Neisewander, J.L. (671) 201)

Behavioral sensitization; Medial prefrontal cortex; Dopamine; Excitatory amino acid; Glycine B receptor; Locomotion (Morrow, B.A. (673) 165)

Dopamine; Enkephalin; Immediate-early gene; Behavioral sensitization; Hybridization, in situ (Wang, J.Q. (673) 262)

Neuroleptic; Paw test; Neostriatum; Olfactory tubercle; Sulpiride; D_2 receptor (Prinssen, E.P.M. (673) 283)

Adenylyl cyclase; Cyclic AMP; Cocaine; Sensitization; Locomotor activity; Cyclic AMP-dependent protein kinase (Miserendino, M.J.D. (674) 299)

Dopamine; Microdialysis; Stress; Footshock (Kalivas, P.W. (675) 325)

Dopamine; Cocaine; Sensitization; Fast cyclic voltammetry; Ventral tegmental area; Rat (Williams, J.E.G. (678) 225)

MDMA; Ecstasy; Striatum; Withdrawal; Drug abuse; Cocaine (White, S.R. (681) 167)

Aspartate; Cocaine; Glutamate; Microdialysis; Stereotypy (Smith, J.A. (683) 264)

Microdialysis; Dopamine; Cholecystokinin; Spontaneously hypertensive rat (Kirouac, G.J. (689) 245)

Opioid; Mu-opioid receptor; CTOP; Ventral tegmental area; Feeding; Drinking; Locomotor activity; Rat (Badiani, A. (690) 112)

Calcitonin gene-related peptide; CGRP Receptor; Alcohol preference; Central amygdaloid nucleus (Hwang, B.H. (690) 249)

Neurotensin; Striatum; Hybridization, in situ; Basal ganglia; Antipsychotic; γ-Aminobutyric acid (Decker, K.P. (691) 9)

$5\text{-}HT_4$ receptor; GR-113808; Serotonin; Dopamine; Microdialysis; Striatum; Substantia nigra (Pozzi, L. (692) 265)

c-*fos*; Amphetamine; MK-801; NBQX (Dalia, A. (694) 299)

Cocaine; 6,7-Dinitroquinoxaline-2,3-dione; Conditioned place preference (Kaddis, F.G. (697) 76)

Conditioned emotional response; Microdialysis; Glutamate; γ-Aminobutyric acid (Saulskaya, N. (698) 114)

N-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; [^{3}H]7-OH-DPAT; [^{3}H]Spiperone; D_3 dopamine receptor; Olfactory tubercle; Striatum; Rat brain (Levant, B. (698) 146)

Cholecystokinin; Copulation; Dopamine; Intracranial stimulation; Sexual behavior; Ventral tegmental area (Markowski, V.P. (699) 266)

N-Methyl-D-aspartate; Dopamine; Nitric oxide; N^G-Nitro-L-arginine; Microdialysis (Ohno, M. (699) 332)

Food deprivation; Glucoprivic intake; Palatability; μ Opioid receptor; κ Opioid receptor (Bodnar, R.J. (700) 205)

Chronoamperometry; Cocaine; Self-administration; Rat; SCH 23390 (Egilmez, Y. (701) 142)

Nucleus accumbens-olfactory tubercle
Dynorphin; Enkephalin; Morphine; Naltrexone; Striatum; Caudate-putamen; Tolerance; Dependence (Trujillo, K.A. (698) 69)

Nucleus ambiguus
Swallowing; Nucleus of the solitary tract; Pseudorabies virus; Pharynx (Bao, X. (696) 246)

Nucleus basalis
Neurokinin B; Acetylcholine; Aging; Lesion (Wenk, G.L. (679) 8)

Glutamate receptor subtype; *N*-Methyl-D-aspartate receptor; AMPA receptor; Kainate receptor; Autoradiography; γ-Aminobutyric acid receptor; Benzodiazepine receptor; Image analysis (Roßner, S. (696) 165)

Nucleus basalis magnocellularis
Aging; Lesion; Rat; Neocortex; Morphology; Plasticity (Wellman, C.L. (669) 48)

Nodosal ganglion; Autotransplantation; Bifemelane hydrochloride; Cholinergic marker; Event-related potential (P300) (Ikeda, K. (688) 171)

β-Amyloid$_{(1-42)}$ peptide; Frontal cortex; Cholinergic system; Cholinotoxicity (Harkany, T. (695) 71)

Nucleus basalis magnocellularis lesion
Chromaffin cell transplant; Selective attention (Welner, S.A. (671) 309)

Nucleus basalis of Meynert
Nerve growth factor; Choline acetyltransferase; Parvalbumin; Cholinergic neuron; Cholinergic synapse (Burgos, I. (692) 154)

Nucleus laminaris
Nucleus magnocellularis; Medial vestibular nucleus; Inhibition; Brain slice; γ-Aminobutyric acid; Receptor (Hyson, R.L. (677) 117)

Nucleus magnocellularis
Cell death; Auditory system; Y10B antibody; Protein synthesis; Afferent deprivation; Brain slice (Hyson, R.L. (672) 196)

Nucleus laminaris; Medial vestibular nucleus; Inhibition; Brain slice; γ-Aminobutyric acid; Receptor (Hyson, R.L. (677) 117)

Nucleus of solitary tract
Pontine parabrachial nucleus; Learning; Conditioned taste aversion; Emetic drug; Area postrema; c-Fos-like immunoreactivity (Swank, M.W. (673) 251)

Nucleus of the basal optic root
Accessory optic system; Serotonin; Subcortical visual pathways (Toledo, C.A.B. (705) 341)

Nucleus of the optic tract
Descending projection; Biocytin; Anterograde tracer; Monkey (Kato, I. (705) 109)

Nucleus of the solitary tract
Hypertonicity; Osmoregulation; Ventrolateral medulla; Parabrachial nucleus; Catecholamine; Cardiovascular regulation; A1 noradrenergic cell group; C1 adrenergic cell group (Hochstenbach, S.L. (674) 46)

Intestinal anaphylaxis; c-fos; Paraventricular nucleus; Lateral parabrachial nucleus; 5-HT$_3$ receptors; Vagus nerve (Castex, N. (688) 149)

Calcitonin gene-related peptide; Tyrosine hydroxylase; Double immunohistochemistry; A2-Catecholaminergic cell group (Fodor, M. (690) 141)

Activins; Magnocellular neurosecretory system; Paraventricular nucleus; Somatostatin; Supraoptic nucleus (Sawchenko, P.E. (694) 233)

Swallowing; Nucleus ambiguus; Pseudorabies virus; Pharynx (Bao, X. (696) 246)

Area postrema; Estrous cycle; Glucoprivation; Metabolic fuel; 2-Deoxy-D-glucose (Schneider, J.E. (698) 107)

Brain slice; Patch clamp; Taste; Synaptic potential; Glutamate; γ-Aminobutyric acid; Neuron reconstruction (Wang, L. (702) 188)

Solitary nucleus; Vagus; Reproduction; Cervix; Uterus; Vagina; Viscera (Hubscher, C.H. (702) 251)

Nucleus ovoidalis
[^{14}C]2-Deoxyglucose; Autoradiography; Incubation; Ring dove; Nucleus preopticus medialis; Nucleus tuberis; Paleostriatum primitivum (Georgiou, G.C. (700) 137)

Nucleus preopticus medialis
[^{14}C]2-Deoxyglucose; Autoradiography; Incubation; Ring dove; Nucleus tuberis; Nucleus ovoidalis; Paleostriatum primitivum (Georgiou, G.C. (700) 137)

Nucleus raphe dorsalis
Rat; Sleep; Wake; Local injection; Corticotropin-like intermediate lobe peptide; Vasoactive intestinal polypeptide; *p*-Chlorophenylalanine (El Kafi, B. (686) 150)

Nucleus raphe magnus
Serotonin; γ-Aminobutyric acid; Glutamic acid decarboxylase; Dorsal raphe nucleus; Colocalization; Immunohistochemistry (Stamp, J.A. (677) 39)

Nucleus reticularis gigantocellularis
Brain stimulation reward; Self-stimulation; Aversion; Analgesia; Ventral tegmental area (Anderson, R. (688) 15)

Nucleus retroambigualis
Respiration; Ventral respiratory group; Inspiratory neuron; Axonal collateral; Spinal cord; Phrenic nucleus; Brainstem (Sasaki, S.-I. (701) 108)

Nucleus reuniens
Thermoregulation; Hypothalamus; Electrophysiology, in vitro; Thalamus temperature sensitive (Travis, K.A. (686) 17)

Nucleus tractus solitarii
Glutamate; Amino acids; Baroreceptor reflex; Denervation; Nodose ganglion; Blood pressure (Colombari, E. (677) 110)

Autoradiography; Spontaneously hypertensive rat; Angiotensin II; α_2-Adrenoceptor; Blood pressure; Heart rate (Fior, D.R. (679) 168)

Nucleus tractus solitarius
Fast Blue; Tyrosine hydroxylase; Stria terminalis; Limbic system; Catecholamine (Terenzi, M.G. (672) 289)

Chemoreceptor pathway; Norepinephrine; Tyrosine hydroxylase; Brainstem (Soulier, V. (674) 188)

Neuropeptide Y-(13–36); Neuropeptide Y receptor; PYY binding; Spontaneously hypertensive rat; Autoradiography; Blood pressure; Intracerebroventricular injection; Rat brain (Aguirre, J.A. (684) 159)

Substance P; Synapse; Paraventricular hypothalamic nucleus; WGA-HRP-colloidal gold; Retrograde tract tracing; Immunohistochemistry; Electron microscopy (Kawano, H. (689) 136)

Imidazoline receptor; Rostral ventrolateral medulla; Clonidine; Barodenervation; Hypotension; Autoradiography (El-Mas, M.M. (691) 195)

Nucleus tuberalis
Alzheimer; Hypothalamus; Alz-50; Golgi apparatus; Lipofuscin (Salehi, A. (678) 29)

Nucleus tuberis
[^{14}C]2-Deoxyglucose; Autoradiography; Incubation; Ring dove; Nucleus preopticus medialis; Nucleus ovoidalis; Paleostriatum primitivum (Georgiou, G.C. (700) 137)

Nycthemeral modulation
Lipolysis; Feeding behavior; Energy expenditure; Respiratory quotient (Ruffin, M.-P. (700) 121)

Nystagmus
Vestibular compensation; Neural plasticity; Decompensation; *N*-Methyl-D-aspartate receptor; Immunohistochemistry (Kitahara, T. (700) 182)

Nystatin-perforated patch-clamp
Rat cerebellar Purkinje neuron; P-type Ca^{2+} channel; Diltiazem; Verapamil (Ishibashi, H. (695) 88)

O

O2A lineage
Free radical; Ischemia; Myelination; Reactive oxygen species; White matter (Husain, J. (698) 86)

O_2 consumption
Carbon monoxide; Carotid body; Chemoreceptor excitation; Cytochrome a_3^{2+}; PO_2 microelectrode (Lahiri, S. (684) 194)

OBCAM
Opioid receptor; Transfection; Immunofluoresence (Lane, C.M. (698) 15)

Obesity
Rat; Hypothalamus; Neuropeptide Y; Zucker (Dryden, S. (690) 185)

Zucker rat; Hyperphagia; Cyclo(His-Pro); Dehydroepiandrosterone (Prasad, C. (699) 149)

Oc1
Visual deprivation; Development; Adult glia; Plasticity (Hawrylak, N. (683) 187)

Microtubule-associated protein; Plasticity; Monocular deprivation; Visual cortex; Cytoskeleton; Development, immunohistochemistry (Werner, D. (701) 55)

Occipital cortex
Traumatic brain injury; Recovery of function; Plasticity; Barrel receptor field; Vibrissa; Multimodality; Vicariation (Dunn-Meynell, A.A. (675) 143)

Ocular enucleation
Retinal ganglion cell; Uni- and bilateral projection; Double labeling; Fluorescent tracer; Supe-

rior colliculus (Farid Ahmed, A.K.M. (704) 307)

Odorant exposure
Voltage-sensitive dye; Optical recording; Odorant identification; Neurophysiology; Rat (Youngentob, S.L. (670) 82)

Odorant identification
Odorant exposure; Voltage-sensitive dye; Optical recording; Neurophysiology; Rat (Youngentob, S.L. (670) 82)

Odor exposure
2-Deoxyglucose; Development; Egr-1; Immediate–early gene; Immunohistochemistry; Learning; Olfactory preference; Transcription factor (Johnson, B.A. (699) 192)

Odor preference
Estrous female odor; Neurosteroid; Pregnenolone sulfate; *N*-Methyl-D-aspartate receptor; Male sexual interest; Olfactory response; Anxiety (Kavaliers, M. (682) 222)

Off-vertical axis rotation
Otolith; Vestibular nuclear neuron; Bidirectional response sensitivity; Spatial property; Response dynamic; Rat (Lai, C.H. (693) 39)

7-OH-DPAT
Dopamine D_3 receptor; Autoreceptor; ICSS; Voltammetry (Gilbert, D.B. (681) 1)

8-OH-DPAT
Brain slice; Serotonin; Bicuculline; Epileptiform; Hippocampus; Intracellular (Salgado, D. (669) 176)

Spinal cord; Descending serotonergic pathway; Serotonin; 5-HT_{1A} and NMDA receptor; AP-5; Sleep; EEG power spectrum; Rat (Bjørkum, A.A. (692) 251)

Olfaction
Apoptosis; Cell death; Development; Olfactory bulb; Plasticity; Sensory deprivation (Najbauer, J. (674) 245)

Vole; Female; Estrus; c-*fos*; Accessory olfactory system (Moffatt, C.A. (677) 82)

Sensory deprivation; *N*-Methyl-D-aspartate; Neural plasticity; Olfactory deprivation (Wilson, D.A. (677) 238)

Olfactory receptor neuron; Whole cell patch clamp; Mixture; Interaction; Transduction; Spiny lobster; Crustacean; Binding (Simon, T.W. (678) 213)

Calcium; Hypogonadotropic hypogonadism (Rawson, N.E. (681) 58)

Atrial natriuretic peptide; Olfactory bulb; Autoradiography; Receptor (Bachar, C. (682) 231)

Calcium-binding protein; Immunocytochemistry (Porteros, A. (689) 93)

Rat; Dentate gyrus; Hippocampus; Fast wave; Evoked potential; Kainic acid; Colchicine (Heale, V.R. (690) 157)

Olfactory bulb
Oxytocin; Vasopressin; Maternal experience; Sheep (Lévy, F. (669) 197)

Glycogen; Glucose; Brain development; Noradrenaline; Norepinephrine; Carnosine (Coopersmith, R. (674) 230)

Apoptosis; Cell death; Development; Olfaction; Plasticity; Sensory deprivation (Najbauer, J. (674) 245)

Noradrenaline; Evoked field potential; Push–pull perfusion; Rat (Mouly, A.-M. (681) 47)

Atrial natriuretic peptide; Synaptosome; Receptor (Haver, E. (681) 75)

Atrial natriuretic peptide; Olfaction; Autoradiography; Receptor (Bachar, C. (682) 231)

Olfactory nerve; Pigeon; Transection; Horseradish peroxidase; Reinnervation; Quantitative image analysis (Jennings, R.A. (683) 159)

Intranasal; Protein transport; Drug delivery; Alzheimer's disease (Thorne, R.G. (692) 278)

Kainic acid; Seizure; Propagation; Cerebral glucose utilization; Electroencephalogram (Araki, T. (693) 207)

Olfactory bulb slice
Sodium current; Patch-clamp; Interneuron (Bardoni, R. (703) 19)

Olfactory cilia membrane
Olfactory transduction; Inositol-1,4,5-triphosphate; Single channel; Rat (Honda, E. (703) 79)

Olfactory deprivation
Olfaction; Sensory deprivation; *N*-Methyl-D-aspartate; Neural plasticity (Wilson, D.A. (677) 238)

Olfactory epithelium
Microvillar cell; Toxic insult; Methyl bromide; Nickel regeneration; Electron microscopy (Miller, M.L. (669) 1)

Olfactory neuron; Trauma-induced regeneration; $ZnSO_4$; Olfactory marker protein; Tissue culture; Chemical trauma; Differentiation (Sosnowski, J.S. (702) 37)

Olfactory marker protein
Olfactory epithelium; Olfactory neuron; Trauma-induced regeneration; $ZnSO_4$; Tissue culture; Chemical trauma; Differentiation (Sosnowski, J.S. (702) 37)

Olfactory nerve
Pigeon; Transection; Horseradish peroxidase; Reinnervation; Quantitative image analysis; Olfactory bulb (Jennings, R.A. (683) 159)

Olfactory neuroblast
Amyloid precursor protein; Matrix protein; Signal transduction; PC-12 cell; Alzheimer's disease; NGF (Luo, Y.Q. (681) 65)

Olfactory neuron
Olfactory epithelium; Trauma-induced regeneration; $ZnSO_4$; Olfactory marker protein; Tissue culture; Chemical trauma; Differentiation (Sosnowski, J.S. (702) 37)

Olfactory preference
2-Deoxyglucose; Development; Egr-1; Immediate–early gene; Immunohistochemistry; Learning; Odor exposure; Transcription factor (Johnson, B.A. (699) 192)

Olfactory receptor neuron
Whole cell patch clamp; Olfaction; Mixture; Interaction; Transduction; Spiny lobster; Crustacean; Binding (Simon, T.W. (678) 213)

Olfactory response
Odor preference; Estrous female odor; Neurosteroid; Pregnenolone sulfate; *N*-Methyl-D-aspartate receptor; Male sexual interest; Anxiety (Kavaliers, M. (682) 222)

Olfactory system
Calcium-binding protein; Calretinin; Double fluorescence labeling; Dual-peroxidase staining; Mitral cell; Tufted cell (Wouterlood, F.G. (682) 93)

Vomeronasal organ; Chemosensory; Neurogenesis; Development; Precursor cell; Nestin (Osada, T. (683) 254)

Olfactory transduction
Inositol-1,4,5-triphosphate; Olfactory cilia membrane; Single channel; Rat (Honda, E. (703) 79)

Olfactory tubercle
Neuroleptic; Paw test; Neostriatum; Nucleus accumbens; Sulpiride; D_2 receptor (Prinssen, E.P.M. (673) 283)

N-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; [^{3}H]7-OH-DPAT; [^{3}H]Spiperone; D_3 dopamine receptor; Nucleus accumbens; Striatum; Rat brain (Levant, B. (698) 146)

Aging; Caudate putamen; Oxytocin receptor; Rat brain; Testosterone; Ventromedial hypothalamic nucleus (Arsenijevic, Y. (698) 275)

Oligodendrocyte
Transferrin binding protein; Avian brain; Immunocytochemistry (Cho, S.S. (674) 15)

Carboxylesterase; Cingulate cortex; Hypothalmus; Spinal trigeminal nucleus (Yamada, T. (674) 175)

Myelin; Glycolipid; Galactocerebroside; Sulfatide; Ultrastructural immunocytochemistry (Schiff, R. (686) 143)

Oligodendroglia
Astroglia; CO_2; Brain; Carbonic anhydrase II (Agnati, L.F. (676) 10)

Oligodeoxynucleotide
Antisense; μ- or κ-Opioid receptor; Body temperature; Opioid agonist (Chen, X.-H. (688) 237)

Oligosynaptic
Spinal; Ia afferent-motoneuron; Stretch; Presynaptic; Human (Cheng, J. (681) 197)

Olivary pretectal nucleus
Efferent; *Phaseolus vulgaris* leucoagglutinin; Pupillary constriction (Klooster, J. (688) 34)

Efferent; Electron microscopy; *Phaseolus vulgaris* leucoagglutinin; Pupillary light reflex (Klooster, J. (688) 47)

Olivocerebellar pathway
Inferior olivary complex; 3-Acetylpyridine; Equilibrium behavior; Learning; Rat (Jones, N. (697) 216)

Olivocochlear fibers
Small cell cap; Granule cells; Auditory brain stem; Biotinylated dextran amine; Retrograde transport (Zhao, H.B. (700) 295)

Olivocochlear neuron
Serotoninergic projection (Thompson, A.M. (695) 263)

Olivopontocerebellar atrophy
Cerebellin; Corticotropin-releasing hormone; Shy-Drager syndrome; Neuropeptide; Cerebellum; Multiple system atrophy; Radioimmunoassay (Mizuno, Y. (686) 115)

ON bipolar cell
Metabotropic glutamate receptor; APB; L-2-Amino-4-phosphonobutyric acid; Electroretinogram; Whole cell recording (Thoreson, W.B. (676) 93)

Oncogene
Bcl-2; Alzheimer's disease; Human brain; Apoptosis; Immunohistochemistry; Neurofibrillary tangle; PHF-1; AT8; Cell death (Satou, T. (697) 35)

One-dimensional strobomap
Hippocampal slice; CA3; Spontaneous epileptiform burst; Mossy fiber stimulation; Phase-locking; Chaos; Strange attractor; Spatial coherence (Hayashi, H. (686) 194)

On-off phenomenon
Dopamine; 6-Hydroxydopamine lesion; Basal ganglia; Motor function; Glutamate antagonist; *N*-Methyl-D-aspartate; MK-801 (Papa, S.M. (701) 13)

Ontogenesis
Suprachiasmatic nucleus; Tyrosine hydroxylase; Immunohistochemistry; Confocal laser scanning microscopy; Vasoactive intestinal polypeptide; Somatostatin; Neuropeptide Y; Aromatic L-aminoacid decarboxylase (Battaglia, A.A. (696) 7)

Ontogeny
Sheep; Fetus; Calcium; Brain; Glucocorticoid (McDonald, T.J. (675) 303)

Operant behavior
Lateral hypothalamus; Lysine; Amino acid deficient diet; Inhibin; Activin; Follistatin (Hawkins, R.L. (704) 1)

Opiate
Nociception; Hyperreflexia; Electromyography; RIII reflex; Morphine (Yeomans, D.C. (670) 297)

Cotransmission; Dense-cored vesicle; Dopamine; Opioid peptide; Substantia nigra (Sesack, S.R. (672) 261)

Intracellular calcium; Fura-2; $^{45}Ca^{2+}$ uptake; Neuronal cell line (Fields, A. (687) 94)

N-Methyl-D-aspartic acid; Dopamine; Glutamate; Excitatory amino acid (Livezey, R.T. (692) 93)

Analgesia; Dynorphin; β-Endorphin; Endorphins; Enkephalin; Morphine; Naloxone (Mansour, A. (700) 89)

Neuropeptide FF; Antiopioid; Hyperalgesia; Pain facilitatory system; Central nervous system (Devillers, J.-P. (700) 173)

Neuropeptide Y; β-Endorphin; Luteinizing hormone; Feeding; Hypothalamus; Push–pull perfusion (Kalra, P.S. (705) 353)

Opiate receptor
Sympathetic ganglion; Opioid peptide; Synapse; Inhibition (Zhang, C. (683) 59)

Opiate withdrawal
Morphine; Locus coeruleus; Glutamate; Metabotropic receptor; Desensitization; Protein kinase C; Protein phosphatase (Kogan, J.H. (689) 111)

OPIDN
Diisopropyl phosphorofluoridate; Hen; Intermediate filament proteins; Cytoskeletal pro CANP (Gupta, R.P. (677) 162)

Opioid
Gene expression; Prodynorphin mRNA; Chronic treatment; Rat brain; Nor-binaltorphimine; Naloxone; Naltrexone (Romualdi, P. (672) 42)

Ventral tegmental area; DAMGO; DPDPE; μ; δ; Feeding (Noel, M.B. (673) 304)

Nociception; Antinociception; Substance P; Naloxone; Tail-flick test; Capsaicin; Spinal cord; Primary afferent; C-fiber; CP-96,345; CP-96,344; CP-99,994 (Yashpal, K. (674) 97)

β-Endorphin; Hypothalamus; Medial preoptic area; Estrogen; Progesterone; Lordosis (Cheung, S. (675) 83)

Feeding; Dietary obesity; Mu receptor; Delta receptor; Kappa receptor; Rat (Cole, J.L. (678) 168)

Cannabinoid; Tetrahydrocannabinol; Analgesia; Withdrawal; Perinatal; Behavior (Vela, G. (680) 142)

Desensitization; Tolerance; Dentate gyrus; Mu receptor; [D-Ala^2,NMe-Phe^4,Gly-ol]-Enkephalin; DAMGO; Interneuron (Mayer, J.H. (686) 134)

Morphine; Macrophage; Brain cell culture; Microglia; Astrocyte; C6 glioma; Kupffer cell (Dobrenis, K. (686) 239)

Long-term potentiation; Dentate gyrus; $GABA_A$ receptor; Disinhibition (Xie, C.W. (688) 56)

Mu-opioid receptor; CTOP; Ventral tegmental area; Nucleus accumbens; Feeding; Drinking; Locomotor activity; Rat (Badiani, A. (690) 112)

β-Endorphin; Met-enkephalin; Cerebrospinal fluid; Analgesia; Arcuate nucleus; High performance liquid chromatography; Periaqueductal gray (Bach, F.W. (690) 167)

Self-stimulation; Corticosterone; Food restriction; Sensitization; Reward (Abrahamsen, G.C. (695) 186)

Behavior; Brainstem; Itch; Rat; Scratching; Trigeminal nucleus (Thomas, D.A. (695) 267)

μ Receptor agonist; δ Receptor agonist; κ Receptor agonist; Cholera toxin; Dorsal root ganglion neuron; K^+ Conductance; Neuroblastoma F11 cell; Pertussis toxin (Fan, S.-f. (696) 97)

Morphine; Withdrawal syndrome; Rostral ventrolateral medulla; Voltammetry, in vivo; Excitatory amino acid; Naloxone (Wang, L. (697) 130)

Pain; Visceral nociception; Analgesia (Traub, R.J. (701) 175)

Development; Cyclic AMP; Norepinephrine uptake; Tyrosine hydroxylase (Sklair-Tavron, L. (702) 117)

Valproic acid; Epilepsy; Anticonvulsant action; γ-Aminobutyric acid; Chloral hydrate; Ketamine; Fentanyl (Löscher, W. (702) 133)

κ-1 Opioid
Antisense oligodeoxynucleotide; Antinociception; Δ^9-THC (Pugh, Jr., G. (689) 157)

Opioid agonist
Antisense; μ- or κ-Opioid receptor; Oligodeoxynucleotide; Body temperature (Chen, X.-H. (688) 237)

Opioid antagonist
Sham feeding; Sucrose intake; μ-Receptor; κ-Receptor; Orosensory mechanism; Palatability (Leventhal, L. (685) 205)

Opioid excitatory supersensitivity
Naloxone-precipitated withdrawal effects; Dorsal-root ganglion neuron; Excitatory opioid receptor antagonist; Etorphine (Crain, S.M. (694) 103)

Opioid peptide
Testosterone; Steroid receptor; Steroid abuse; Athlete; Hypothalamus; Castration; Immunocytochemistry; Optical density (Menard, C.S. (669) 255)

Cotransmission; Dense-cored vesicle; Dopamine; Opiate; Substantia nigra (Sesack, S.R. (672) 261)

Nitric oxide; Neuronal release; Rat (Hara, S. (675) 190)

Sympathetic ganglion; Opiate receptor; Synapse; Inhibition (Zhang, C. (683) 59)

Radioimmunoassay; PAG; γ-Aminobutyric acid; Bicuculline; Nociception (Williams, F.G. (690) 207)

Opioid receptor
Eye; Enkephalin; Growth; Cell renewal; Zeta (ζ) receptor; Evolution; Neuropeptide; Immunocytochemistry (Zagon, I.S. (671) 105)

Ibogaine; Noribogaine; Desmethyl ibogaine (Pearl, S.M. (675) 342)

Autoradiography, in vivo; Social play; Social isolation; Diprenorphine (Vanderschuren, L.J.M.J. (680) 148)

Rat spinal cord; Dorsal rhizotomy; Receptor autoradiography; Primary afferent fiber (Stevens, C.W. (687) 53)

OBCAM; Transfection; Immunofluoresence (Lane, C.M. (698) 15)

Calcitonin gene-related peptide; $CGRP_{8-37}$; β-Funaltrexamine; Naltrindole; nor-Binaltorphimine; Naloxone; Hindpaw withdrawal latency (Yu, L.-C. (698) 23)

Luteinizing hormone; Norepinephrine; Medial preoptic area; Pregnancy; Push-pull perfusion; HPLC (Zhen, S. (698) 121)

δ-Opioid receptor
Naltrindole; Hypoxia; Heme protein; Cobalt; 4,6-Dioxoheptanoic acid; NG108-15 cell (Mayfield, K.P. (676) 358)

Antinociception; RNA; Solution hybridization; Central nervous system locus (Jenab, S. (691) 69)

Reinforcement; Excitatory synapse; Synaptic vesicle recycling; Presynaptic release (Svingos, A.L. (700) 25)

κ-Opioid receptor
Dynorphin; AMPA/kainate receptor; Rat spinal dorsal horn neuron; Whole-cell voltage-clamp (Kolaj, M. (671) 227)

U-69,593; Ca^{2+}-channel; Dihydropyridine; Analgesia (Barro, M. (672) 148)

Food deprivation; Glucoprivic intake; Palatability; Nucleus accumbens; μ Opioid receptor (Bodnar, R.J. (700) 205)

U50488; P-type Ca^{2+} channel; G-protein; Dynorphin A; Norbinartorphimine; Purkinje cell; Rat (Kanemasa, T. (702) 207)

μ-Opioid receptor
Genomic DNA; Promoter; Transcription initiation site (Liang, Y. (679) 82)

Suicide; [^{3}H]Tyr-D-Ala-Gly-*N*-methyl-Phe-Gly-ol; Human brain; Aging; Depression (Gabilondo, A.M. (682) 245)

Prenatal morphine; Hypothalamus; Sex dimorphism (Rimanóczy, A. (690) 245)

Food deprivation; Glucoprivic intake; Palatability; Nucleus accumbens; κ Opioid receptor (Bodnar, R.J. (700) 205)

μ- or κ-Opioid receptor
Antisense; Oligodeoxynucleotide; Body temperature; Opioid agonist (Chen, X.-H. (688) 237)

μ-Opioid receptor agonist
DAMGO; Local cerebral glucose utilization; Brain site; Limbic epilepsy; Memory; Mood; Antinociception (Fabian, I. (697) 205)

Opioid receptors
B-Lymphocyte; Cytokine; Cytotoxic T-lymphocyte; Mouse; Morphine abstinence; Morphine tolerance; Naltrexone; Natural killer cell; T-Lymphocyte (Bhargava, H.N. (690) 121)

Opioid system
Microdialysis; Noradrenaline; Hypothalamus; Paraventricular nucleus; Neuropeptide Y; Stress (Shibasaki, T. (688) 189)

Opossum
G protein; Accessory olfactory bulb; *Monodelphis domestica*; Differential localization; Vomeronasal organ (Halpern, M. (677) 157)

Optical density
Testosterone; Steroid receptor; Steroid abuse; Athlete; Hypothalamus; Castration; Immunocytochemistry; Opioid peptide (Menard, C.S. (669) 255)

Optical Imaging
State; EEG; RSA; Cell swelling; Theta; Cat (Rector, D.M. (696) 151)

Optical recording
Odorant exposure; Voltage-sensitive dye; Odorant identification; Neurophysiology; Rat (Youngentob, S.L. (670) 82)

Optic tectum
Field potential; Pretectotectal inhibition; Neuropeptide Y; Cane toad (Schwippert, W.W. (669) 150)

Calbindin D-28k; Calcium-binding protein; Calretinin; Teleost (Arévalo, R. (671) 112)

Endothelin; Vasoactive peptide; Chick embryo (Hsu, L. (703) 72)

Orbital enucleation
Brain; Arachidonate; Docosahexaenoate; Palmitate; Deoxyglucose; Quantitative autoradiography; Visual system; Rat; Fatty acid; Lipid; Phospholipid; Glucose; Vision; Neuroplasticity (Wakabayashi, S. (679) 110)

Ordinary coherence
Cat brainstem; Coupled oscillator; Partial coherence; Sympathetic nerve discharge; Urethane anesthesia (Zhong, S. (670) 329)

Organelle motion
Axoplasmic transport; Adrenaline; Acetylcholine; Desensitization; Superior cervical ganglion; Axonal transport control (Kawakami, T. (683) 88)

Organic osmolyte
Cerebral cell volume regulation; Development; Hypernatremia; Taurine (Trachtman, H. (693) 155)

Organization of tau subunits in PHF
Alzheimer's disease; Freeze-dried vertically Pt-C replicated PHF; PHF isolated from neurofibrillary tangles; Neurofibrillary pathology (Ruben, G.C. (675) 1)

Organ of Corti
Taurine; Rat; Guinea pig; Immunocytochemistry (Usami, S.-i. (676) 277)

Organophosphate
Neurotoxicity; Neonatal; Muscarinic acetylcholine receptor; Behaviour; Insecticide; Diisopropylfluorophosphate (Ahlbom, J. (677) 13)

Organotypic cocultures and development
Adenovirus; Gene transfer; Thalamic; Cortical (Wilkemeyer, M.F. (703) 129)

Organotypic hippocampal culture
Oxygen deprivation; Glucose deprivation; Glutamate receptor antagonists; Neuroprotection; Propidium iodide staining (Strasser, U. (687) 167)

Organotypic hippocampal cultures
Glutamate; Glycine; *N*-Methyl-D-aspartate receptor; Glycine site; Ischemia; Acea 1021; 7-Chlorokynurenic acid; MK-801 (Newell, D.W. (675) 38)

Organum vasculosum laminae terminalis
Interleukin-1β; Febrile tolerance (Nakamori, T. (675) 103)

Fever mechanism; Neonate; Pyrogen; Prostaglandin; Leukotriene; Platelet activating factor; Blood-brain barrier (Coceani, F. (700) 191)

Organum vasculosum lamina terminalis
Fos immunoreactivity; Sodium depletion; Subfornical organ; Sodium intake; Sodium sensitive-neuron (Vivas, L. (679) 34)

Ornithine decarboxylase
Newborn; Brain slice; Hypoxia/ischemia; Development (Packianathan, S. (688) 61)

Orofacial
Formalin; Hyperalgesia; Plasticity; Rat; Trigeminal (Cadet, R. (676) 189)

Orofacial movement
Superior colliculus; Primary motor cortex; Frontal eye field; Anterograde axonal tracing; Intracortical microstimulation; Monkey (Tokuno, H. (703) 217)

Orosensory mechanism
Opioid antagonist; Sham feeding; Sucrose intake; μ-Receptor; κ-Receptor; Palatability (Leventhal, L. (685) 205)

Orthostatic hypotension
Cardiovascular control; Motion sickness; Vomiting; Sympathetic nervous system; Blood pressure (Yates, B.J. (689) 197)

Oscillation
Reach; Field potential; Parietal cortex; Motor preparation; Primate (MacKay, W.A. (704) 167)

Oscillatory field
Stimulus-induced oscillation; Visual cortex; Spatial convergence; Cat (Bauer, R. (669) 291)

Osmolality
Blood–brain barrier; Demyelination; Magnetic resonance imaging (Adler, S. (679) 135)

Osmolarity
PACAP; Microinjection; DA; Lateral hypothalamus; Sulpride; D_2 receptor; Drinking; Blood pressure (Puig de Parada, M. (696) 254)

Osmoreception
Wistar rat; WKY rat; Immediate-early gene; Paraventricular hypothalamus; Supraoptic nucleus; Lamina terminalis; Area postrema (Rowland, N.E. (675) 127)

Osmoregulation
Hypertonicity; Nucleus of the solitary tract; Ventrolateral medulla; Parabrachial nucleus; Catecholamine; Cardiovascular regulation; A1 noradrenergic cell group; C1 adrenergic cell group (Hochstenbach, S.L. (674) 46)

Osmotic effect
Ion channel; Glutamate; γ-Aminobutyric acid; Whole-cell patch-clamp; Dissociated neuron; Cell volume (Vreugdenhil, M. (670) 89)

Cell swelling; Extracellular space; Hyponatremia; Spreading depression; Seizure; Epilepsy; Neuron damage (Huang, R. (695) 195)

Cell volume; Interstitial space; Tissue resistance; Hypertonia; Spreading depression; Synaptic transmission; Water deprivation (Huang, R. (702) 181)

Osmotic pressure
Synaptic potential; Cell swelling; Sodium deficiency; Excitatory postsynaptic potential; Spreading depression; Seizure (Chebabo, S.R. (695) 203)

Osmotic pump
Nerve growth factor; Neuropathic pain; Thermal hyperalgesia; Mechanical allodynia; Rat (Ren, K. (699) 286)

Osmotic stress
Subfornical organ; Hypovolaemia; Polyethylene glycol; Hypertonic saline; c-*fos* (Smith, D.W. (698) 232)

Otolith
Vestibular nuclear neuron; Off-vertical axis rotation; Bidirectional response sensitivity; Spatial property; Response dynamic; Rat (Lai, C.H. (693) 39)

Ototoxicity
Transplatin; Cisplatin; Cochlear outer hair cell; Whole-cell patch-clamp; Voltage-dependent calcium channel; Compound action potential (Saito, T. (697) 276)

Ouabain
Taurine; Potassium; Cell swelling (Olson, J.E. (682) 197)

Regulatory volume decrease; K^+ channel blocker; Cl^- channel blocker; Bumetanide; Stretch-activated channel blocker; Cytosolic Ca^{2+} (Lippmann, B.J. (686) 29)

Peripheral nerve; Myelinated axon; Anoxia; Electron probe X-ray microanalysis; Calcium; Na^+-Ca^{2+} exchanger; Na^+-K^+ ATPase (Lehning, E.J. (694) 158)

Output regions of the basal ganglia
Glutamate transmission; Kappa opioid; Parkinson's disease (Maneuf, Y.P. (683) 102)

OX-42
AT_2 receptor; Autoradiography; ED1; Immunohistochemistry; Kainic acid; Gliosis; Hippocampus; Angiotensin (Jöhren, O. (702) 153)

Oxidative NO derivative
NO-generating drug; (Na^+,K^+)-ATPase; Cerebral cortex; Porcine; NO (Sato, T. (704) 117)

Oxidative stress
Aging; Muscarinic receptor; Striatum (Joseph, J.A. (671) 73)

Ballooned neuron; Corticobasal degeneration; Pick disease; Glial inclusion; Neuropil thread (Castellani, R. (696) 268)

Oxiracetam
Hippocampus; Protein kinase C; Mouse; Spatial learning (Fordyce, D.E. (672) 170)

Oxotremorine
Place learning; Morris water maze task; Baclofen; 2-Hydroxysaclofen; Motor incoordination (Nakagawa, Y. (683) 209)

Acetylcholine release; Atropine; CP 93129; Fimbria-fornix; Hippocampus; Mecamylamine; Methiothepin; 2-methyl-Serotonin; Septal graft (Cassel, J.-C. (704) 153)

Oxotremorine-M
Acetylcholine; AF-DX 116; Brain slice; Carbachol; Estrogen; 4-DAMP; M3; McN-A-343; Muscarinic receptor subtype; *p*-F-HHSiD; Pirenzepine; Single-unit activity (Kow, L.-M. (694) 29)

OX7-saporin
Volkensin; Synapses; Ultrastructure; Basal ganglia; Ricin (Roberts, R.C. (701) 227)

Oxygen
Ion channel; Patch clamp; Tetrodotoxin; Glomus; Chemoreceptor; Acclimatization (Hempleman, S.C. (699) 42)

Oxygen deprivation
Organotypic hippocampal culture; Glucose deprivation; Glutamate receptor antagonists; Neuroprotection; Propidium iodide staining (Strasser, U. (687) 167)

Oxygen free radical
MPTP; Parkinsonism; DMTU; [^{3}H]Dopamine uptake; Striatal tissue slice (Heo, J.H. (671) 321)

Oxymetazoline
α_2-Adrenoceptor; Hypothalamus; Estradiol; Thermodynamics; Signal transduction; Receptor binding; RX821002 (Karkanias, G.B. (674) 26)

Oxytocin
Pregnancy; Parturition; Maternal behavior; Preoptic area; Brainstem; Noradrenalin (Luckman, S.M. (669) 115)

Vasopressin; Olfactory bulb; Maternal experience; Sheep (Lévy, F. (669) 197)

Vasopressin; Electrophysiology; Coexistence; Milk-ejection reflex; Phenotype; Plasticity (Moos, F.C. (669) 309)

Prolactin; Lactation; Vasopressin; Hypothalamus; Posterior pituitary (Ghosh, R. (672) 24)

Corticotropin-releasing factor; Arginine vasopressin; ACTH; Corticosterone (Romero, L.M. (676) 151)

Astroglia; Proliferation; Vasopressin; Mitogen; Rat (Lucas, R.L. (681) 218)

Circadian rhythm; Microdialysis; Supraoptic; Paraventricular (Kalsbeek, A. (682) 75)

Autonomic nervous system; Cardiovascular regulation; Corticotrophin releasing factor; Enkephalin; Heart; Lateral hypothalamic area; Medulla oblongata; Neuropeptide Y; Paraventricular hypothalamic nucleus; Pseudorabies virus; Raphe nuclei; Serotonin; Somatostatin; Stellate ganglion; Sympathetic nervous system (Jansen, A.S.P. (683) 1)

Morphine; Vasopressin; Food intake; Ventromedial hypothalamus; Lateral hypothalamus (Gulati, K. (690) 99)

AIDS; Paraventricular nucleus; Hybridization, in situ; Human brain; Immunocytochemistry (Guldenaar, S.E.F. (700) 107)

G-protein; Receptor; Vasopressin (Flanagan-Cato, L.M. (701) 75)

Hypothalamic slice; Norepinephrine release; Estradiol; Progesterone (Etgen, A.M. (703) 242)

Oxytocin receptor
Aging; Caudate putamen; Olfactory tubercle; Rat brain; Testosterone; Ventromedial hypothalamic nucleus (Arsenijevic, Y. (698) 275)

Sympathetic preganglionic neuron; Spinal cord; Slice; In vitro; Autonomic nervous system; Intracellular recording; Biocytin (Desaulles, E. (699) 139)

P

P19
Amyloid precursor protein; Alternative splicing; Embryonal carcinoma; Differentiation; ASF/SF2; U2AF (Tsukahara, T. (679) 178)

PACAP
REM sleep; Temperature; Sleep; Rat; EEG (Fang, J. (686) 23)

Microinjection; DA; Lateral hypothalamus; Sulpride; D_2 receptor; Drinking; Osmolarity; Blood pressure (Puig de Parada, M. (696) 254)

Pacemaker
Circadian rhythm; Suprachiasmatic nucleus; Protein synthesis; Anisomycin; Cell culture; Antisense; Vasopressin (Watanabe, K. (684) 179)

Pacemaker neurons
A-current; Anomalous rectifier; Autonomic nervous system; Brainstem slice; Central adrenergic neuron; DiI retrograde transport; Medulla oblongata; Persistent sodium current; Medulla oblongata; Sympathetic nervous system; Vasomotor control (Kangrga, I.M. (670) 215)

Pacemaker nucleus
Somatostatin; Paracrine release; Autocrine function; Prepacemaker nucleus; Electric fish; Biocytin; Gymnotiformes; *Apteronotus leptorhynchus* (Stroh, T. (674) 1)

PAG
Radioimmunoassay; γ-Aminobutyric acid; Bicuculline; Nociception; Opioid peptide (Williams, F.G. (690) 207)

Pain
Colorectal distension; Nociception; Viscera; Pentobarbital (Follett, K.A. (669) 157)

Serotonin; Trigeminal; Mustard oil; Neuronal plasticity (Ebersberger, A. (676) 336)

γ-Aminobutyric acid; Receptor; Spinal cord; Chronic inflammation; Neurectomy; Complete Freund's adjuvant (CFA); Plasticity (Castro-Lopes, J.M. (679) 289)

Dorsal horn; Nociception; Spinal cord slice; Dorsal root potential; $GABA_A$ receptor; Presynaptic inhibition (Shimizu, T. (691) 92)

Interleukin-6; Hyperalgesia; α-Melanocyte-stimulating hormone; Prostaglandin; Central nervous system (Oka, T. (692) 123)

Viscera; Thalamus; Reproductive organ; Nociception (Berkley, K.J. (695) 92)

Antidepressant drug; Dorsolateral funiculus; Serotonin (Ardid, D. (695) 253)

Isoflurane; General anesthetic; MAC; Nociceptive modulation; Raphe magnus (Leung, C.G. (699) 71)

Sex difference; β-Endorphin; Formalin test; Behavior; Rat (Aloisi, A.M. (699) 242)

Ib afferent; Cutaneous afferent; Motor control; Man (Rossi, A. (700) 164)

Interleukin-1β; Preoptic area; Ventromedial hypothalamus; Hyperalgesia; Analgesia; Diagonal band of Broca; Prostaglandin; α-Melanocyte stimulating hormone (Oka, T. (700) 271)

Opioid; Visceral nociception; Analgesia (Traub, R.J. (701) 175)

β-Endorphin; Cerebrospinal fluid; Analgesia; Chromatography, high performance liquid; Spinal cord; Excitatory amino acids; Neurokinins (Bach, F.W. (701) 192)

2-Deoxy-D-[^{14}C]glucose; Analgesia; Rat; Glucose; Brain (Gescuk, B.D. (701) 279)

Coexistence; Nerve injury; Plasticity; Primary sensory neuron; Spinal cord (Zhang, Q. (705) 149)

Pain, chronic
Tolerance, opioid; Nociception; Inflammation, chronic; Analgesia; Stress-induced analgesia; Tail-flick latency; Complete Freund's adjuvant (Gutstein, H.B. (680) 173)

Pain facilitation
Vagotomy; Rat; Tumor necrosis factor-α; Hyperalgesia; Interleukin-1β; Interleukin-1 receptor antagonist; Formalin (Watkins, L.R. (692) 244)

Pain facilitatory system
Neuropeptide FF; Antiopioid; Opiate; Hyperalgesia; Central nervous system (Devillers, J.-P. (700) 173)

Paired helical filament
Alz 50 antibody; Tau protein; Tau synthetic peptide; ELISA (Ksiezak-Reding, H. (697) 63)

Paired-pulse facilitation
Cannabinoid; Dentate gyrus; Synaptic potential; WIN 55,212-2; Perforant path (Kirby, M.T. (688) 114)

Spermine; Polyamine; Hippocampal slice; CA1; Field potential; Ca^{2+} channel (Ferchmin, P.A. (689) 189)

Paired pulse inhibition
In vivo; Hippocampus; Dentate gyrus (Burdette, L.J. (680) 63)

Palatability
Opioid antagonist; Sham feeding; Sucrose intake; μ-Receptor; κ-Receptor; Orosensory mechanism (Leventhal, L. (685) 205)

Food deprivation; Glucoprivic intake; Nucleus accumbens; μ Opioid receptor; κ Opioid receptor (Bodnar, R.J. (700) 205)

Paleostriatum primitivum
[^{14}C]2-Deoxyglucose; Autoradiography; Incubation; Ring dove; Nucleus preopticus medialis; Nucleus tuberis; Nucleus ovoidalis (Georgiou, G.C. (700) 137)

Palmitate
Brain; Arachidonate; Docosahexaenoate; Deoxyglucose; Quantitative autoradiography; Visual system; Orbital enucleation; Rat; Fatty acid; Lipid; Phospholipid; Glucose; Vision; Neuroplasticity (Wakabayashi, S. (679) 110)

Pancreatic polypeptide
2-Deoxy-D-glucose; Central nervous system; Gastric emptying; Thyrotropin-releasing hormone (TRH); Vagotomy (Okumura, T. (674) 137)

Papez circuit
Excitotoxin; Limbic system; Subiculum; Kainate receptor; Silver staining; *Macaca fascicularis* (Schmued, L.C. (695) 64)

Parabrachial nucleus
Hypertonicity; Osmoregulation; Nucleus of the solitary tract; Ventrolateral medulla; Catecholamine; Cardiovascular regulation; A1 noradrenergic cell group; C1 adrenergic cell group (Hochstenbach, S.L. (674) 46)

Substance P receptor; Spinal cord; Nociception; Rat (Ding, Y.-Q. (674) 336)

Fos immunoreactivity; Ethanol; Hypothalamus; Amygdala; Edinger–Westphal nucleus; Dehydration; Vasopressin (Chang, S.L. (679) 89)

Paracrine release
Somatostatin; Autocrine function; Prepacemaker nucleus; Pacemaker nucleus; Electric fish; Biocytin; Gymnotiformes; *Apteronotus leptorhynchus* (Stroh, T. (674) 1)

Paradoxical sleep
Atropine; Glucose; Sleep; Memory; Spontaneous alternation (Stone, W.S. (694) 133)

Parafascicular nucleus
Thalamus; Raphe system; Biocytin; Dextran amine; Motor control; Rat (Marini, G. (690) 177)

Parafascicular thalamic nucleus
Thalamus; Reticular thalamic nucleus; Thalamic commissural projection; Intralaminar thalamic nucleus; Retrograde cell labeling; Multi-unit anterograde labeling (Hazrati, L.-N. (679) 123)

Parasympathetic neuron
Acetylcholine receptor; α-Bungarotoxin; Neuronal bungarotoxin; Cardiac ganglion (Sargent, P.B. (680) 99)

Parathyroid hormone-related protein
Astrocyte; Meninges; Glial limiting membrane (Struckhoff, G. (676) 1)

Paraventricular
Oxytocin; Circadian rhythm; Microdialysis; Supraoptic (Kalsbeek, A. (682) 75)

Paraventricular hypothalamic nucleus
Autonomic nervous system; Cardiovascular regulation; Corticotrophin releasing factor; Enkephalin; Heart; Lateral hypothalamic area; Medulla oblongata; Neuropeptide Y; Oxytocin; Pseudorabies virus; Raphe nuclei; Serotonin; Somatostatin; Stellate ganglion; Sympathetic nervous system (Jansen, A.S.P. (683) 1)

Substance P; Synapse; Nucleus tractus solitarius; WGA-HRP-colloidal gold; Retrograde tract tracing; Immunohistochemistry; Electron microscopy (Kawano, H. (689) 136)

Suprachiasmatic nucleus; Intergeniculate leaflet; Subparaventricular zone; Paraventricular thalamic nucleus; Retrochiasmatic area; γ-Aminobutyric acid; Benzodiazepine receptor (Gao, B. (700) 142)

Paraventricular hypothalamus
Angiotensin II; Losartan; Supraoptic nucleus; Lamina terminalis; Kininase II inhibitor; Enalapril; Captopril; Bradykinin antagonist (Hoe 140) (Rowland, N.E. (669) 73)

Wistar rat; WKY rat; Osmoreception; Immediate-early gene; Supraoptic nucleus; Lamina terminalis; Area postrema (Rowland, N.E. (675) 127)

Paraventricular nucleus
Arginine-vasopressin; Bed nucleus of the stria terminalis; Renal hypertension (Earle, M.L. (669) 41)

Microdialysis; Noradrenaline; Restraint; Tail-pinch; Desensitization; Stress; Adaptation (Shibasaki, T. (670) 169)

Insulin; Microdialysis; Ventromedial hypothalamus; Feeding behavior; Satiety (Orosco, M. (671) 149)

Suprachiasmatic nucleus; Circadian rhythms; Phaseolus vulgaris-leucoagglutinin; Corticotropin-releasing factor; Dual immunocytochemistry (Vrang, N. (684) 61)

Dehydration; mRNA; CRH; Corticosterone; Supraoptic nucleus; Adrenal gland (Watts, A.G. (687) 63)

Intestinal anaphylaxis; c-fos; Lateral parabrachial nucleus; Nucleus of the solitary tract; 5-HT_3 receptors; Vagus nerve (Castex, N. (688) 149)

Microdialysis; Noradrenaline; Hypothalamus; Neuropeptide Y; Stress; Opioid system (Shibasaki, T. (688) 189)

Interleukin-1β; Anterior hypothalamic area; Push-pull perfusion (Phelps, C.P. (688) 193)

PGE_2 release; Sleep; Wakefulness; Ventromedial hypothalamus (Gerozissis, K. (689) 239)

Brain mapping; Hypothalamus; Thalamus; Microinjection; Nociception; Anorexia; Fever (Sellami, S. (694) 69)

Activins; Magnocellular neurosecretory system; Nucleus of the solitary tract; Somatostatin; Supraoptic nucleus (Sawchenko, P.E. (694) 233)

Neuropeptide Y; Fos; Fourth ventricle; Forebrain; Volume transmission; Extracellular fluid transport (Xu, B. (698) 227)

Oxytocin; AIDS; Hybridization, in situ; Human brain; Immunocytochemistry (Guldenaar, S.E.F. (700) 107)

Paraventricular thalamic nucleus
Suprachiasmatic nucleus; Intergeniculate leaflet; Subparaventricular zone; Paraventricular hypothalamic nucleus; Retrochiasmatic area; γ-Aminobutyric acid; Benzodiazepine receptor (Gao, B. (700) 142)

Parental behavior
Mouse; 5-Azacytidine; Developmental alteration; Brain damage; Hyperactivity; Naive female; Experience effect (Londei, T. (677) 61)

Parietal
Lateral hypothalamus; Self-stimulation; Temporal; Brain metabolism (Harley, C.W. (685) 217)

Parietal cortex
S100β, synaptophysin; Hippocampus; Temporal cortex; Temporal pole; Hypothalamus; Morphometry; Immunocytochemistry; Serotonin (Azmitia, E.C. (677) 181)

Reach; Field potential; Oscillation; Motor preparation; Primate (MacKay, W.A. (704) 167)

Parkinsonism
MPTP; Oxygen free radical; DMTU; [^{3}H]Dopamine uptake; Striatal tissue slice (Heo, J.H. (671) 321)

Monkey; Dopamine; Motor behavior; Cognition; Recovery (Schneider, J.S. (672) 112)

1-Methyl-4-phenylpyridinium ion; 6-Hydroxydopamine; Microdialysis; Striatum; Rat (Espino, A. (695) 151)

MPTP; Globus pallidus; Entopeduncular nucleus; Dopamine (Rothblat, D.S. (705) 1)

Parkinson's disease
Rat; Striatum; Cerebrospinal fluid; Dopamine; MPP^+; 6-Hydroxydopamine (Espino, A. (669) 19)

Adrenal medullary graft; Sprouting; 6-Hydroxydopamine; Retrograde transport; Dopamine uptake; Striatum (Hansen, J.T. (670) 197)

N-Methyl-4-phenylpyridinium ion; Neurodegeneration; Dopamine; Substantia nigra; Rat; Carboline (Neafsey, E.J. (675) 279)

Fetal transplant; Dopamine neuron; Levodopa; Functional recovery (Steece-Collier, K. (676) 404)

Basal ganglia; Dyskinesia; $GABA_A$ receptor; Dopamine receptor; Globus Pallidus; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine (Calon, F. (680) 43)

L-DOPA; Dopamine neuron; Neurotoxicity; Rat mesencephalic cell culture; Ascorbic acid (Pardo, B. (682) 133)

Glutamate transmission; Kappa opioid; Output regions of the basal ganglia (Maneuf, Y.P. (683) 102)

Cool storage; Hibernation medium; Microtransplantation; Dopamine neuron (Nikkhah, G. (687) 22)

Goldfish, brain; Tyrosine hydroxylase; Dopaminergic; Neuron; MPTP; Animal model; Microscopy; Immunohistochemistry; Ultrastructure (Goping, G. (687) 35)

Iron uptake; Ferrotransferrin receptor; Autoradiography; Human; MPTP (Faucheux, B.A. (691) 115)

Dopamine; Substantia nigra; Human; Synaptic vesicle (Thibaut, F. (692) 233)

Neurokinin receptor; Substance P; Senktide; Dopamine; Substantia nigra; 6-Hydroxydopamine (Bannon, M.J. (695) 19)

L-DOPA; ACh release; Microdialysis; 6-Hydroxydopamine; Supersensitization (Ueda, H. (698) 213)

6-Hydroxydopamine; L-DOPA therapy; Neurotoxicity; Dopamine carrier (neuronal); Mouse (Naudin, B. (701) 151)

Aromatic L-amino acid decarboxylase; Dopamine; Striatum; 6-Hydroxydopamine; L-Dihydroxyphenylalanine; Immunocytochemistry (Mura, A. (704) 51)

Lipopolysaccharide; Astrocyte; Microglia; 6-hydroxydopamine; Tyrosine hydroxylase; Dopamine; Substantia nigra (Bronstein, D.M. (704) 112)

Epidermal growth factor; Basic fibroblast growth factor; Glia; Neurotrophin; Ischemia; Neuronal survival; MPP^+ (Akaneya, Y. (704) 175)

Parkinson's disease model
Dopamine and behavioral compensation; Dopamine and locomotion; Dopamine and turning; Dopamine and turning in rat; Dopamine and voluntary movement (Miklyaeva, E.I. (681) 23)

Partial coherence
Cat brainstem; Coupled oscillator; Ordinary coherence; Sympathetic nerve discharge; Urethane anesthesia (Zhong, S. (670) 329)

Parturition
Pregnancy; Maternal behavior; Preoptic area; Brainstem; Oxytocin; Noradrenalin (Luckman, S.M. (669) 115)

Maternal behavior; [^{14}C]2-Deoxyglucose autoradiography; Sensitization; Vomeronasal system; Medial preoptic area (Del Cerro, M.C.R. (696) 213)

Parvalbumin
Calretinin; Trigeminal ganglion; Tooth pulp; Rat (Ichikawa, H. (679) 205)

Transient forebrain ischemia; Heat-shock protein; Delayed cell death; Gerbil (Ferrer, I. (692) 41)

Nerve growth factor; Choline acetyltransferase; Nucleus basalis of Meynert; Cholinergic neuron; Cholinergic synapse (Burgos, I. (692) 154)

Calbindin-D28k; Corticosterone; Adrenalectomy; Dentate gyrus; Degeneration; CA1; Calcium (Krugers, H.J. (696) 89)

Red nucleus; Calcium-binding protein; Calbindin D-28k; Double-immunohistochemical method; Motor system; Rat (Hontanilla, B. (696) 121)

β-Amyloid; Calcium-binding protein; Choline acetyltransferase; Cholinotoxicity; Medial septum (Harkany, T. (698) 270)

Parvicellular reticular formation
Substantia nigra pars reticulata; Superior colliculus; Axon collateral; Rat (Yasui, Y. (674) 122)

Passive
Inhibition; Facilitation; Locomotion; Cycling (Misiaszek, J.E. (677) 69)

Passive avoidance
Memory deficit; Bicuculline; Picrotoxin; Flumazenil; Leu-enkephalin (Dubrovina, N.I. (670) 347)

Water maze; Cingulate cortex; Muscarinic receptor (Riekkinen Jr., P. (685) 46)

Excitatory amino acid; Lithium; Neurotoxicity; Basal forebrain (Pascual, T. (695) 289)

Passive avoidance response
Pregnenolone sulfate; Ethylestrenol; Anabolic steroid; Memory (Isaacson, R.L. (689) 79)

Passive electrical property
Motoneuron; Sag; Q-current (Engelhardt, J.K. (675) 241)

Patch-clamp
Microglia; Cationic and anionic channel current (McLarnon, J.G. (693) 8)

Ion channel; Tetrodotoxin; Glomus; Chemoreceptor; Acclimatization; Oxygen (Hempleman, S.C. (699) 42)

Graded impulse; Action potential; Anterior hypothalamus; Preoptic area; Slice preparation (Johansson, S. (700) 240)

Nucleus of the solitary tract; Brain slice; Taste; Synaptic potential; Glutamate; γ-Aminobutyric acid; Neuron reconstruction (Wang, L. (702) 188)

Sodium current; Olfactory bulb slice; Interneuron (Bardoni, R. (703) 19)

Path analysis
Neural network; Structural equation modeling; Multimodal interaction; Pavlovian conditioning; Auditory learning; 2-Deoxyglucose; Rat (McIntosh, A.R. (683) 228)

θ-Pattern
Alcohol; Body temperature; LTP; Memory (Givens, B. (688) 27)

Pattern generation
A-current; Brain slice (Hsiao, C.-f. (695) 217)

Pavlovian conditioning
Neural network; Structural equation modeling; Multimodal interaction; Auditory learning; Path analysis; 2-Deoxyglucose; Rat (McIntosh, A.R. (683) 228)

Paw test
Neuroleptic; Neostriatum; Nucleus accumbens; Olfactory tubercle; Sulpiride; D_2 receptor (Prinssen, E.P.M. (673) 283)

PC12 cell
Zinc; ATP; Dopamine release; Intracellular Ca^{2+} concentration; ATP-activated current (Koizumi, S. (673) 75)

Amyloid precursor protein; Matrix protein; Signal transduction; Olfactory neuroblast; Alzheimer's disease; NGF (Luo, Y.Q. (681) 65)

Sciatic nerve; Conditioned medium; Neurotrophic factor; Chick ganglia; Dorsal root ganglion; Ciliary ganglion (Villegas, G.M. (685) 77)

PC12D cell
Nerve growth factor; MAP kinase; ERK; Neurite; Staurosporine (Sano, M. (688) 213)

Pelvic nerve
Analgesia; Electrical stimulation; Aδ fiber; C-fiber (Cueva-Rolón, R. (679) 267)

(+)Pentazocine
Sigma receptor; Norepinephrine; Hippocampus; *N*-Methyl-D-aspartate receptor; BD737; DuP 734 (Gonzalez-Alvear, G.M. (673) 61)

Pentobarbital
Pain; Colorectal distension; Nociception; Viscera (Follett, K.A. (669) 157)

Ischemia; Acetylcholine; Brain dialysis; Choline acetyltransferase; Delayed neuronal death; Hippocampus; Gerbil (Ishimaru, H. (673) 112)

Social isolation; Stress; Hypnotic activity; Noradrenergic system; CRF; Aggressive behavior (Ojima, K. (684) 87)

Pentylenetetrazol
Seizure-related gene; 3′ Untranslated region; Calcium current; *Xenopus* oocyte (Kajiwara, K. (671) 170)

Nitric oxide; N^{ω}-Nitro-L-arginine methyl ester; Kindling; Epilepsy; Glutamate binding; Rat (Becker, A. (688) 230)

Penumbra
Cerebral blood flow; Transient focal ischemia; Middle cerebral artery occlusion; Autoradiography; Rat (Takagi, K. (691) 160)

Peptide
Feeding; Insulin; NPY; Glucose; Immediate-early gene (Lambert, P.D. (670) 59)

Peptide antagonist excitatory opioid receptor
Dual opioid inhibitory-agonist/excitatory-antagonist; Etorphine; Action potential shortening vs. prolongation (Shen, K.-F. (701) 158)

Peptide antibody
G-protein; Dorsal root ganglion; Retrograde axonal transport; Nuclear translocation (Hendry, I.A. (700) 157)

Peptide blockers of excitatory opioid receptor function
[des-Tyr^1]dynorphin A-(1-13); β-Endorphin-(1-27); Dorsal root ganglion neuron; Action potential shortening vs. prolongation; Bimodal agonist action of endogenous opioid (Shen, K.-F. (673) 30)

Peptide delivery to the brain
Nanoparticle; Dalargin; Leu-enkephalin analog; Polysorbate 80; Blood–brain barrier (Kreuter, J. (674) 171)

Peptide precursor
Hybridization, in situ; Dorsal subiculum; Hippocampus; Mamillary body (Nicot, A. (702) 279)

Perforant path
Kindling; Spontaneous seizure; Epilepsy; Dentate gyrus; Amygdala (Milgram, N.W. (670) 112)

Cannabinoid; Dentate gyrus; Synaptic potential; Paired-pulse facilitation; WIN 55,212-2 (Kirby, M.T. (688) 114)

Perforant pathway
Extra-genomic; γ-Aminobutyric acid; Steroid hormone; Membrane; Hippocampus; Progesterone (Frye, C.A. (696) 113)

Perforated patch
Coeliac-superior mesenteric ganglia; Whole-cell patch-clamp; M-Current; A-Current; Ca^{2+}-activated K^+ current; Delayed rectifier K^+ current; 4-Aminopyridine; Tetraethylammonium; Muscarinic agonist (Carrier, G.O. (701) 1)

Performance
Melatonin; Temperature; Alertness; Sleep; Circadian rhythm; Phase-shifting (Deacon, S. (688) 77)

Periaqueductal gray
Amygdala; Fear; Anxiety; Analgesia; Enkephalin (Da Costa Gomez, T.M. (689) 21)

β-Endorphin; Met-enkephalin; Cerebrospinal fluid; Analgesia; Arcuate nucleus; High performance liquid chromatography; Opioid (Bach, F.W. (690) 167)

Thalamic nucleus submedius; Ventrolateral orbital cortex; Descending modulation; Tail flick reflex; Rat (Zhang, Y.-Q. (696) 205)

Periaqueductal gray matter
Rat; Spinal cord stimulation; Microdialysis; γ-Aminobutyric acid; 5-Hydroxytryptamine; Glutamate; Substance P (Stiller, C.-O. (699) 231)

Perinatal
Cannabinoid; Opioid; Tetrahydrocannabinol; Analgesia; Withdrawal; Behavior (Vela, G. (680) 142)

Periodontal mechanoreceptor
Digastric reflex; Masseter inhibition; Naturally behaving rabbit (Yamada, Y. (669) 86)

Peripheral benzodiazepine receptor
Growth factor; Diazepam; Basic fibroblast growth factor; Astrocyte; Proliferation; DNA synthesis (Neary, J.T. (675) 27)

Hepatic encephalopathy; Ammonia; Thioacetamide; Pregnenolone; Neurosteroid (Itzhak, Y. (705) 345)

Peripheral hyperinsulinemia
Cerebral glucose; Central nervous system; Sympathetic regulation (Doyle, P. (684) 47)

Peripheral nerve
Familial amyotrophic lateral sclerosis; Transgenic mice; Cu,Zn superoxide dysmutase (SOD); Motor neuron; Spinal cord; Brainstem (Dal Canto, M.C. (676) 25)

Calcium dependent ATPase; Electron microscopic histochemistry; Sciatic nerve; Axon; Schwann cell; Plasma membrane (Mizutani, Y. (693) 95)

Myelinated axon; Anoxia; Ouabain; Electron probe X-ray microanalysis; Calcium; Na^+-Ca^{2+} exchanger; Na^+-K^+ ATPase (Lehning, E.J. (694) 158)

Nerve graft; Schwann cell; Basal lamina; Axonal regeneration; Nerve gap repair; Rat (Gulati, A.K. (705) 118)

Peripheral neuropathy
Hyperalgesia; Neuropeptide Y; Sympathetic nervous system (Tracey, D.J. (669) 245)

CGP-39653; Excitotoxicity; Motor neuron; NMDAR1 subunit; Nociception; Dorsal horn; Neural transplant (Hama, A.T. (687) 103)

Peripheral sensory innervation
Dorsal root ganglion; Dopamine; DOPA; 3-*O*-methyl-DOPA; HPLC-ED; Sympathectomy; Rat (Bertrand, A. (681) 201)

Peripheral target interaction
Sensory neuron; Carbonic anhydrase; Botulinum toxin; Vinblastine (Mayeux, V. (694) 191)

Perirhinal cortex
Kindling; Epilepsy; Amygdala; Piriform cortex; Guinea-pig; Reserpine; Picrotoxin (Teskey, G.C. (672) 137)

Periventriculo-hypophyseal
Colocalization; Neuroendocrinology; False transmitter; Interaction; Cotransmission; Superfluous transmitter (Vanhatalo, S. (687) 205)

Permanent microdialysis implantation
Spinal cord; White matter; Ventral funiculus; Histology; Motor function; Spontaneous running rat (Gerin, C. (704) 191)

Permanent occlusion of bilateral common carotid artery
Infarction; Rarefaction; Acetylcholine; Ischemia; Rat (Ni, J.-W. (673) 290)

Permeability
Blood–brain barrier; Unbound bilirubin; Newborn (Lee, C. (689) 233)

Blood–brain barrier; Taurine; Transport; Brain perfusion technique; Endothelial cell (Benrabh, H. (692) 57)

RMP-7; Bradykinin analog; Blood–brain barrier; Tight junction; Lanthanum; Hypotension (Sanovich, E. (705) 125)

Peroxidase anti-peroxidase
Insulin-like growth factor I; Neuron cell culture; IGF I receptor; Hybridization, in situ; Radioimmunoassay; IGF I internalization (Schechter, R. (670) 1)

Peroxidation
Aging; Blood–brain barrier; Free radical (Mooradian, A.D. (671) 159)

Antioxidant; Blood–brain barrier; Diabetes (Mooradian, A.D. (671) 164)

Peroxisomal membrane protein
Peroxisome; PMP 22; Zellweger syndrome; Immunohistochemistry; Brain development (Miyawaki, T. (700) 285)

Peroxisome
Peroxisomal membrane protein; PMP 22; Zellweger syndrome; Immunohistochemistry; Brain development (Miyawaki, T. (700) 285)

Persistent sodium current
A-current; Anomalous rectifier; Autonomic nervous system; Brainstem slice; Central adrenergic neuron; DiI retrograde transport; Medulla oblongata; Pacemaker neurons; Medulla oblongata; Sympathetic nervous system; Vasomotor control (Kangrga, I.M. (670) 215)

Pertussis toxin
Opioid; μ Receptor agonist; δ Receptor agonist; κ Receptor agonist; Cholera toxin; Dorsal root ganglion neuron; K^+ Conductance; Neuroblastoma F11 cell (Fan, S.-f. (696) 97)

Petrosal ganglion
Calcium-binding protein; Carotid body; CGRP; Glossopharyngeal nerve; Nodose ganglion; Tyrosine hydroxylase; Vagus nerve (Ichikawa, H. (675) 337)

PG-21
Immunohistochemistry; SNB; Steroid; Testosterone; Spinal cord (Lubischer, J.L. (694) 61)

PGE_2 release
Sleep; Wakefulness; Paraventricular nucleus; Ventromedial hypothalamus (Gerozissis, K. (689) 239)

Pharmacogenetics
Hypothalamic paraventricular nucleus; Corticotropin-releasing hormone; Fos-immunoreactivity; Selective breeding; Stress; Wistar rat (Mulders, W.H.A.M. (689) 61)

Pharmacokinetics
Behavior; Saturable transport; Therapeutics; Mouse (Banks, W.A. (695) 59)

Pharynx
Swallowing; Nucleus ambiguus; Nucleus of the solitary tract; Pseudorabies virus (Bao, X. (696) 246)

Phase-locking
Hippocampal slice; CA3; Spontaneous epileptiform burst; Mossy fiber stimulation; Chaos; Strange attractor; One-dimensional strobomap; Spatial coherence (Hayashi, H. (686) 194)

Phaseolus vulgaris leucoagglutinin
Piriform cortex; Serotonin; Cholera toxin B subunit; Brainstem serotonergic nuclei; Colchicine; Nialamide (Datiche, F. (671) 27)

***Phaseolus vulgaris* leucoagglutinin**
Medial zona incerta; Efferent; Anterograde tract tracing (Wagner, C.K. (677) 229)

Suprachiasmatic nucleus; Paraventricular nucleus; Circadian rhythms; Corticotropin-releasing factor; Dual immunocytochemistry (Vrang, N. (684) 61)

Olivary pretectal nucleus; Efferent; Pupillary constriction (Klooster, J. (688) 34)

Olivary pretectal nucleus; Efferent; Electron microscopy; Pupillary light reflex (Klooster, J. (688) 47)

Anterior pretectal nucleus; Pretectum; Diencephalon; Mesencephalon; Thalamus; Antinociception (Terenzi, M.G. (701) 183)

Thalamus; Vestibular nucleus; Wheat germ agglutinin-horseradish peroxidase (Shiroyama, T. (704) 130)

Phase–response curve
Circadian rhythm; Methamphetamine; Haloperidol; Suprachiasmatic nucleus; Locomotor activity (Honma, S. (674) 283)

Phase shift
NPY; Circadian; Wheel running; Hamster; Suprachiasmatic nucleus (Biello, S.M. (673) 25)

Phase-shifting
Melatonin; Temperature; Alertness; Performance; Sleep; Circadian rhythm (Deacon, S. (688) 77)

Phencyclidine
MK-801; γ-Aminobutyric acid; *N*-Methyl-D-aspartate; Striatum; Microdialysis (Hondo, H. (671) 54)

Heat shock; DNQX; Excitotoxicity; AMPA receptor; Cortex; Ketamine; Rat (Sharp, J.W. (687) 114)

Phencyclidine (PCP) site
σ site; (+)-SKF 10,047; (−)-SKF 10,047; *N*-Methyl-D-aspartate receptor; MK-801; Hippocampus; Working memory (Ohno, M. (684) 237)

Phenotype
Oxytocin; Vasopressin; Electrophysiology; Coexistence; Milk-ejection reflex; Plasticity (Moos, F.C. (669) 309)

PKH26; Schwann cell (Devon, R. (688) 223)

Phenotypic variation
GnRH; Immunocytochemistry; Light; Reproduction; Deer mouse (Korytko, A.I. (685) 135)

Phenyl-α-*tert*-butylnitrone
Aging; α-Tocopherol; Antioxidant; Ascorbate; Cognition; Free radical; TBARS (Socci, D.J. (693) 88)

Phenylethanolamine *N*-methyltransferase
Midline thalamus; Epinephrine; Cholera toxin subunit B; Immunohistochemistry; Behavior; Rat (Otake, K. (697) 17)

β-Phenylethylamine
Dopamine; Nigrostriatal cell (Rodriguez, M. (703) 201)

Phenylglycine
Metabotropic glutamate receptor; α-Methyl-4-carboxyphenylglycine; Morbidity; Fluid percussion; Traumatic brain injury; Rat (Gong, Q.-Z. (700) 299)

Phenytoin
MAP2; Cytoskeleton; Mouse brain; Cerebellum; Cell culture (Kempermann, G. (687) 194)

Liposome; Amygdala; Dibutyryl-cAMP; Status epilepticus; Horseradish peroxidase; Blood-brain barrier (Mori, N. (703) 184)

Pheochromocytoma-12 cell
Hypoxia; Immediate-early response gene; c-*fos*; Nerve growth factor; Neuroblastoma cell; Fibroblast (Prabhakar, N.R. (697) 266)

PHF-1
Bcl-2; Oncogene; Alzheimer's disease; Human brain; Apoptosis; Immunohistochemistry; Neurofibrillary tangle; AT8; Cell death (Satou, T. (697) 35)

PHF isolated from neurofibrillary tangles
Alzheimer's disease; Freeze-dried vertically Pt-C replicated PHF; Organization of tau subunits in PHF; Neurofibrillary pathology (Ruben, G.C. (675) 1)

PHF-tau
Alzheimer's disease; D-Aspartate; Normal tau (Kenessey, A. (675) 183)

Phorbol diacetate
Aplysia; Action potential; Protein kinase C; H-7 (Papp, A. (684) 107)

Phorbol ester binding
Protein kinase C; Inhibitory avoidance; Hippocampus; Amygdala; Autoradiography (Bernabeu, R. (685) 163)

Phoshodiesterase
Rat pinealocyte; Nitric oxide; Cyclic GMP; Ca^{2+}; Protein kinase C (Spessert, R. (694) 207)

Phosphatidylinositol bisphosphate
Brain injury; Fluid percussion; Diacylglycerol; Free fatty acid; Arachidonic acid (Dhillon, H.S. (698) 100)

Phosphatidylinositol hydrolysis
Alzheimer's disease; Inositol(1,4,5)P_3; Inositol(1,3,4,5)P_4; Calcium; Receptor; Signal transduction (Garlind, A. (681) 160)

Phosphatidylinositol 3-kinase
Neurotrophic; Retrograde axonal transport; PI 3-kinase; ERK; MEK; MEK kinase; GAP-43; Signal transduction (Johanson, S.O. (690) 55)

Phosphodiesterase
Adrenergic receptor; Norepinephrine; Isoproterenol; Adenosine; Astrocyte; Cyclic AMP transport; Cerebral cortex; Cyclic AMP; Astrocyte; Secretion; Transport (Rosenberg, P.A. (692) 227)

Phosphoinositide
Serotonin receptor; Hippocampus; Development (Ike, J. (678) 49)

Lithium; Inositol; Cholinergic; Serotonergic; Seizure (Williams, M.B. (685) 169)

Phosphoinositide turnover
M_1 selective agonist; Xanomeline; Rat brain; Conformational analysis; Antagonist (Periyasamy, S. (693) 118)

Phospholipase
Glutamate; Synaptoneurosome; Receptor; Plasticity (Bernard, J. (671) 195)

Phospholipase A_2
Melittin; Neurotoxicity; Neuronal culture; $[Ca^{2+}]_i$; Seizure; Rat (Clapp, L.E. (693) 101)

Phospholipase C-δ, Tau
Alzheimer's disease; Basic fibroblast growth factor; Electron microscopy; Solubilization (Shimohama, S. (669) 217)

Phospholipid
Brain; Arachidonate; Docosahexaenoate; Palmitate; Deoxyglucose; Quantitative autoradiography; Visual system; Orbital enucleation; Rat; Fatty acid; Lipid; Glucose; Vision; Neuroplasticity (Wakabayashi, S. (679) 110)

Phosphorylation
Tau; Synaptophysin; Dentate gyrus; Mitogen-activated protein; CA1 (Torack, R.M. (669) 135)

Neurofilament; CaM kinase II; Acrylamide; Glycidamide; Cytoskeletal protein (Reagan, K.E. (671) 12)

Muscarinic receptor; Cation channel; Dephosphorylation; Deactivation; AlF complex; G protein; Chromaffin cell (Inoue, M. (687) 199)

Nitric oxide; c-*fos*; Cyclic AMP response element binding protein; Retinal pigment epithelium (Ohki, K. (696) 140)

Photic entrainment
Nitric oxide; Circadian rhythm; Suprachiasmatic nucleus; Fos (Weber, E.T. (692) 137)

Photic stimulation
Circadian rhythm; Monosodium glutamate; Suprachiasmatic nucleus; Intergeniculate leaflet; Constant light; Fos immunocytochemistry (Edelstein, K. (675) 135)

Photoaffinity labeling
Sigma receptor; Affinity chromatography; 3-PPP; Haloperidol; Rat cerebellar receptor; Bovine cerebellar receptor (Schuster, D.I. (670) 14)

Photochemical cortical infarction
HU-211; Blood–brain barrier; Evans blue (Belayev, L. (702) 266)

Photoelectric method
Calcitonin gene-related peptide; Cerebral blood flow; Cerebral microvessel; $CGRP_{8-37}$; Vasodilator (Kobari, M. (698) 95)

Photogenic seizure
Genetic reflex epilepsy; Audiogenic seizure; Neural chimera; Fayoumi epileptic chicken (Fadlallah, N. (675) 55)

Photoperiod
Melatonin; 5-Methoxytryptophol; Pineal organ; Human; Season; Circadian rhythm (Hofman, M.A. (671) 254)

Sexual maturation; Testosterone; Brain metabolism; 2-DG; Sensory system; Quail (Teruyama, R. (697) 169)

Photoperiodism
N-Methyl-D-aspartate; Testosterone; Testes (Ratiere, M.N. (705) 159)

Photoperiod polysialic acid
Neural cell adhesion molecule; NCAM; Siberian hamster (Lee, W. (690) 64)

Photoreceptor
c-*fos*; c-*jun*; Illumination; Immediate-early gene; Plastic change; Regeneration; Retina (Mallo, G. (693) 196)

Circadian; Cone; Mouse; Retinal degenerate; Retinaldehyde; Rod; Vitamin A (Provencio, I. (694) 183)

Photoreceptor cell
Aging; Retina; Müller cell; Fischer 344 rat (DiLoreto Jr., D.A. (698) 1)

Phrenic
Hypoglossal; Control of breathing; Airway (Di Pasquale, E. (695) 271)

Phrenic motoneuron
Medullary inspiratory neuron; Cross-correlation; Rat (Duffin, J. (694) 55)

Phrenic neurogram
Breathing control; Fastigial nucleus; Vermis; Respiratory neuron; Electrical stimulation; Kainic acid (Xu, F. (705) 53)

Phrenic nucleus
Respiration; Ventral respiratory group; Nucleus retroambigualis; Inspiratory neuron; Axonal collateral; Spinal cord; Brainstem (Sasaki, S.-I. (701) 108)

Phylogeny
GAP-43; Neuromodulin; B-50; *Xenopus laevis*; Expression; Tetraploidy (Shain, D.H. (697) 241)

Physostigmine
Acetylcholine; Rostral ventrolateral medulla; Carbachol; Pressor response; Acetylcholine release (Kubo, T. (686) 1)

Pial arteriole
Adenosine; Hypercapnia; Hypoxia; *N*-Methyl-D-aspartate; Nitric oxide; Tetrodotoxin (Pelligrino, D.A. (704) 61)

Pial venule
Rat; Fluorescein isothiocyanate albumin; Microcirculation; L-NMMA; L-NAME (Mayhan, W.G. (686) 99)

Pia mater
Insulin-like growth factor-II; Insulin-like growth factor binding protein-2; Meninges; Conditioned medium (Ishikawa, K. (697) 122)

Pick disease
Ballooned neuron; Corticobasal degeneration; Oxidative stress; Glial inclusion; Neuropil thread (Castellani, R. (696) 268)

Picrotoxin
Passive avoidance; Memory deficit; Bicuculline; Flumazenil; Leu-enkephalin (Dubrovina, N.I. (670) 347)

Kindling; Epilepsy; Amygdala; Piriform cortex; Perirhinal cortex; Guinea-pig; Reserpine (Teskey, G.C. (672) 137)

Convulsion; 2,3-Butanedione monoxime; γ-Aminobutyric acid; Anticonvulsant; Whole cell current in response to GABA; 2,3-Butanedione (Brightman, T. (678) 110)

Convulsion; Fos; Immunohistochemistry; Cortex; Thalamus; Caudate-putamen; Hippocampus; Rat (Willoughby, J.O. (683) 73)

Bicuculline; Ethyl-β-Carboline-3-Carboxylate; γ-Aminobutyric acid; L-Glutamate; Muscimol; Tyrosine hydroxlase and phenethyl-*N*-methyl transferase immunoreactive cell; Vasodepressor neuron (Gatti, P.J. (693) 80)

γ-Aminobutyric acid; Benzodiazepine; Harmaline; Clonazepam; Hippocampus (Weiss, M. (695) 105)

Pigeon
Olfactory nerve; Transection; Horseradish peroxidase; Reinnervation; Quantitative image analysis; Olfactory bulb (Jennings, R.A. (683) 159)

Pigment epithelium
Müller glia; Retinal development; Cell proliferation assay; Proliferative vitreoretinopathy; Rat (Jaynes, C.D. (678) 55)

PI 3-kinase
Neurotrophic; Retrograde axonal transport; Phosphatidylinositol 3-kinase; ERK; MEK; MEK kinase; GAP-43; Signal transduction (Johanson, S.O. (690) 55)

Pilocarpine
Nitric oxide; Seizure; Kainic acid; *N*-Methyl-D-aspartate receptor; Nitro-L-arginine (Maggio, R. (679) 184)

Pineal
Hydroxyindole-*O*-methyltransferase; Melatonin; Retina; Y79 retinoblastoma; Tissue-specific (Bernard, M. (696) 37)

Pineal gland
Wake–sleep cycle; Cyclic AMP; Anteroventro-medial hypothalamus; Cerebral cortex; Interscapular brown adipose tissue; Low ambient temperature (Perez, E. (684) 56)

Intergeniculate leaflet; *N*-Acetylserotonin; Deep pineal; Lamina intercalaris; Circadian rhythm (Cipolla-Neto, J. (691) 133)

Circadian rhythm; Melatonin (Akasaka, K. (692) 283)

Circadian rhythm; Melatonin; Cell culture (Murakami, N. (693) 1)

Pineal organ
Melatonin; 5-Methoxytryptophol; Human; Photoperiod; Season; Circadian rhythm (Hofman, M.A. (671) 254)

Lizard; *Christinus marmoratus*; Melatonin; Circadian rhythm; In vitro (Moyer, R.W. (675) 345)

Piperazine acceptor site
Dopamine transporter; [^{3}H]GBR 12935; Prefrontal cortex; Striatum; Dopamine uptake site (Gordon, I. (674) 205)

Pirenzepine
Muscarinic receptor; Medial septum; Hippocampus; Sympathetic ingrowth; Lesion; Receptor binding (Harrell, L.E. (676) 386)

Intracerebroventricular; Mean arterial pressure; Heart rate; 4-DAMP; Methoctramine; Atropine; Anesthesia (Ally, A. (677) 268)

Acetylcholine; AF-DX 116; Brain slice; Carbachol; Estrogen; 4-DAMP; M3; McN-A-343; Muscarinic receptor subtype; Oxotremorine-M; *p*-F-HHSiD; Single-unit activity (Kow, L.-M. (694) 29)

Piriform cortex
Serotonin; Phaseolus vulgaris leucoagglutinin; Cholera toxin B subunit; Brainstem serotonergic nuclei; Colchicine; Nialamide (Datiche, F. (671) 27)

Kindling; Epilepsy; Amygdala; Perirhinal cortex; Guinea-pig; Reserpine; Picrotoxin (Teskey, G.C. (672) 137)

Pituitary
Growth hormone-releasing factor; Binding site; Gpp(NH)p; Reducing agent; Aging (Lefrançois, L. (673) 39)

Vasopressin; Culture; Meninges; Hypothalamus; Regeneration; Hypophysectomy (Ishikawa, K. (677) 20)

ACTH; Corticotropin releasing factor; Dexamethasone; IL-1 receptor; Stress (Takao, T. (688) 219)

$GABA_A$ receptor; $GABA_C$ receptor; Reverse-transcribed polymerase chain reaction (Boué-Grabot, E. (704) 125)

Pituitary adenylate cyclase activating polypeptide
Human brain nuclei; Microdissection; Radioimmunoassay (Palkovits, M. (699) 116)

Pituitary adenylate cyclase-activating polypeptide
Intracerebroventricular; Vasoactive intestinal polypeptide; Thyrotropin-releasing hormone; Spontaneous motor activity; Rearing behavior; Reserpine; Hypothermia (Masuo, Y. (700) 219)

PKC
Protein kinase C; Isoenzyme; IMHV; Imprinting; Double-labeling; Neuron-specific enolase; S100; Glial cell (Van der Zee, E.A. (676) 41)

Kindling; Epilepsy; Hybridization, in situ; Gene expression; mRNA; Plasticity (Kamphuis, W. (702) 94)

PKH26
Phenotype; Schwann cell (Devon, R. (688) 223)

Place learning
State-dependent learning; Muscimol; Bicuculline; Morris water maze task; Rat (Nakagawa, Y. (681) 126)

Morris water maze task; Baclofen; 2-Hydroxysaclofen; Oxotremorine; Motor incoordination (Nakagawa, Y. (683) 209)

Place of articulation
Primary auditory cortex; Monkey; Current source density; Multiunit activity; Speech; Tonotopic organization (Steinschneider, M. (674) 147)

Place-preference conditioning
Cocaine; Septum; Hippocampus; Reward (Gong, W. (683) 221)

Planar lipid bilayer
Lidocaine; Local anesthetic; Batrachotoxin; Subconductance; Sodium channel (Salazar, B.C. (699) 305)

Planorbis corneus
Dopamine; Dopamine exocytosis; Cell body; Vesicle; Vesicle content; Vesicle size; Multiple classes of vesicle; Distribution (Chen, G. (701) 167)

Plaque
Alzheimer's disease; β-Amyloid; Glycosaminoglycan; Heparan sulfate; Chondroitin sulfate; Neurotoxicity; Neurodegeneration (Woods, A.G. (697) 53)

Plasma
Cerebrospinal fluid; Amino acid; Ventromedial nucleus of the hypothalamus; Single unit activity; Brain slice (Nishimura, F. (691) 217)

Plasma membrane
Immunohistochemistry; Electron microscopy; Neuron; Lysosome; Apolipoprotein E (Tooyama, I. (691) 235)

Calcium dependent ATPase; Electron microscopic histochemistry; Sciatic nerve; Peripheral nerve; Axon; Schwann cell (Mizutani, Y. (693) 95)

Plasminogen activator
Blood-brain barrier; Brain edema; Matrix metalloproteinase; Tumor necrosis factor-α; Rat (Rosenberg, G.A. (703) 151)

Plastic change
c-*fos*; c-*jun*; Illumination; Immediate-early gene; Photoreceptor; Regeneration; Retina (Mallo, G. (693) 196)

Plasticity
Aging; Lesion; Nucleus basalis magnocellularis; Rat; Neocortex; Morphology (Wellman, C.L. (669) 48)

Oxytocin; Vasopressin; Electrophysiology; Coexistence; Milk-ejection reflex; Phenotype (Moos, F.C. (669) 309)

MK-801; *N*-Methyl-D-aspartate; Nociception; Sensitization; Flexor reflex (Xu, X.-J. (670) 342)

Human; Aging; Basal forebrain; Histochemistry; Nitric oxide synthase; Nitric oxide (Benzing, W.C. (670) 351)

Glutamate; Synaptoneurosome; Phospholipase; Receptor (Bernard, J. (671) 195)

Apoptosis; Cell death; Development; Olfactory bulb; Olfaction; Sensory deprivation (Najbauer, J. (674) 245)

Traumatic brain injury; Recovery of function; Barrel receptor field; Vibrissa; Multimodality; Occipital cortex; Vicariation (Dunn-Meynell, A.A. (675) 143)

Formalin; Hyperalgesia; Orofacial; Rat; Trigeminal (Cadet, R. (676) 189)

Sympathoadrenal system; Depolarization; Neuropeptide Y; Enkephalin; Somatostatin (Maynard-Salgado, G. (676) 268)

Muscarinic receptor; Medial septum; Hippocampus; Sympathetic ingrowth; Lesion; Internalization (Ayyagari, V. (676) 394)

Protein synthesis; Hyperactivity; Axon; Goldfish; M-neuron (Eugenín, J. (677) 319)

γ-Aminobutyric acid; Baclofen; Hippocampus; Memory; CGP-35348; D-APV; *N*-Methyl-D-amphetamine (Brucato, F.H. (677) 326)

γ-Aminobutyric acid; Receptor; Spinal cord; Chronic inflammation; Neurectomy; Pain; Complete Freund's adjuvant (CFA) (Castro-Lopes, J.M. (679) 289)

CGRP; Neuropeptide; Cranial nerve (Thompson, G.C. (683) 140)

Visual deprivation; Development; Adult glia; Oc1 (Hawrylak, N. (683) 187)

Muscarinic receptor; Medial septum; Hippocampus; Sympathetic ingrowth (Kolasa, K. (684) 201)

Guinea pig; S100 protein; Vestibular system; Labyrinthectomy; Vestibular compensation (Rickmann, M. (688) 8)

Hypothalamus; Neurohypophysis; Anti-F3 antibody; Colchicine (Olive, S. (689) 271)

Estrogen; Progesterone; Glia; Synaptogenesis; Synapse shedding (Klintsova, A. (690) 269)

Microtubule-associated protein; Monocular deprivation; Visual cortex; Cytoskeleton; Oc1; Development, immunohistochemistry (Werner, D. (701) 55)

Kindling; Long-term potentiation; Kindling-induced potentiation; Memory; Neocortex; Corpus callosum (Racine, R.J. (702) 77)

Long-term potentiation; Memory; Neocortex; Corpus callosum (Racine, R.J. (702) 87)

PKC; Kindling; Epilepsy; Hybridization, in situ; Gene expression; mRNA (Kamphuis, W. (702) 94)

Muscarinic receptor; Receptor binding; Circling training; Development; Rat striatum (Ibarra, G.R. (705) 39)

Coexistence; Nerve injury; Pain; Primary sensory neuron; Spinal cord (Zhang, Q. (705) 149)

Platelet activating factor
Cerebral ischemia; Hippocampus; Microdialysis; Thromboxane A_2 (Pettigrew, L.C. (691) 243)

Fever mechanism; Neonate; Pyrogen; Prostaglandin; Leukotriene; Blood-brain barrier; Organum vasculosum laminae terminalis (Coceani, F. (700) 191)

Pleural ganglia
Mollusc; Clione limacina; Neuron culture; Cell recognition (Panchin, Y.V. (669) 315)

Plus maze
Cocaine withdrawal; Corticotropin-releasing factor; Anxiety (Sarnyai, Z. (675) 89)

PMP 22
Peroxisome; Peroxisomal membrane protein; Zellweger syndrome; Immunohistochemistry; Brain development (Miyawaki, T. (700) 285)

Pneumotaxic center
Airway smooth muscle; Autonomic nervous system (Motekaitis, A.M. (671) 314)

Polyamine
N-Methyl-D-aspartate receptor; Darting behavior; Neuromodulator; Rat prefrontal cortex; [^{3}H]MK-801; Radioligand binding (Savelli, J.E. (682) 41)

Spermine; Hippocampal slice; CA1; Field potential; Paired-pulse facilitation; Ca^{2+} channel (Ferchmin, P.A. (689) 189)

Polyamine recognition domain
N-Methyl-D-aspartate receptor complex; Agonist–antagonist; bis-(3-Aminopropyl)nonanediamine; Multiplicity (Yoneda, Y. (679) 15)

Polydipsia
Fos-like immunoreactivity; Dehydration; Hypothalamus; Circumventricular organ; Water balance; Inbred mouse (Ueta, Y. (677) 221)

Polyethylene glycol
Subfornical organ; Hypovolaemia; Osmotic stress; Hypertonic saline; c-*fos* (Smith, D.W. (698) 232)

Polymer
Nerve growth factor; Diffusion; Elimination; Controlled release; Brain interstitium (Krewson, C.E. (680) 196)

Polyol pathway
Nerve regeneration; Diabetic neuropathy; Diabetic rat (Love, A. (703) 105)

Polyribosome
B-50/GAP-43; Promoter; Transcription; Translation (Eggen, B.J.L. (690) 73)

Polysensory
Auditory; Visual; Evoked potential (Barth, D.S. (678) 177)

Polysorbate 80
Nanoparticle; Dalargin; Leu-enkephalin analog; Blood–brain barrier; Peptide delivery to the brain (Kreuter, J. (674) 171)

PO_2 microelectrode
Carbon monoxide; Carotid body; Chemoreceptor excitation; Cytochrome a_3^{2+}; O_2 consumption (Lahiri, S. (684) 194)

Pontine micturition center
AMPA/kainate receptor; GYKI-52466; CNQX; Micturition (Matsumoto, G. (693) 246)

Pontine noradrenergic cell group
Tyrosine hydroxylase mRNA; Chronic monoarthritis; Hybridization, in situ (Cho, H.-J. (695) 96)

Pontine nuclei
Volkensin; Ricin; Cerebellum; Inferior olive; Retrograde transport; Neuronal degeneration (Cevolani, D. (689) 163)

Pontine parabrachial nucleus
Nucleus of solitary tract; Learning; Conditioned taste aversion; Emetic drug; Area postrema; c-Fos-like immunoreactivity (Swank, M.W. (673) 251)

Ponto-geniculo-occipital
Active sleep; Muscle atonia; Microiontophoresis; α-Chloralose; Cat (López-Rodríguez, F. (699) 201)

Population spike
Glial cell; Depolarization; K^+ concentration; Schaffer collateral; Synaptic transmission (Leung, L.S. (697) 262)

Porcine
NO-generating drug; (Na^+,K^+)-ATPase; Cerebral cortex; NO; Oxidative NO derivative (Sato, T. (704) 117)

Porcine brain natriuretic peptide
Guanylate cyclase; Ultracytochemistry; Frog; Choroid plexus; Epithelial cell (Vagnetti, D. (705) 295)

Positive feedback
Metabotropic glutamate receptor; Excitatory amino acid; Magnesium; Autoreceptor; Spinal cord (Gotani, H. (689) 281)

Postcommissural fornix
Central nervous system; Lesion; Chondroitin/dermatan sulfate proteoglycan; Regeneration (Stichel, C.C. (704) 263)

Posterior cingulate cortex
Subiculum; Long-term potentiation/depression; Synaptic plasticity; Electrophysiology, in vitro (Hedberg, T.G. (670) 181)

Posterior lateral nucleus
Retina; Ganglion cell; Ventral lateral geniculate; Retrograde double-labeling; Ipsilateral; Fluorescent tracer; Rat (Farid Ahmed, A.K.M. (674) 275)

Posterior pituitary
Oxytocin; Prolactin; Lactation; Vasopressin; Hypothalamus (Ghosh, R. (672) 24)

Posterior thalamic group
Thalamostriatal fiber; CM/Pf complex; Central lateral nucleus; Striatal matrix; Ethmoid nucleus (Deschênes, M. (701) 288)

Post-mortem human central nervous system
D-Serine; Prefrontal cortex; Superior parietal cortex; Cerebellum; Spinal cord; Dementia of the Alzheimer type; Schizophrenia (Kumashiro, S. (681) 117)

Post-natal
γ-Aminobutyric acid; Glycine; Hippocampus; Tissue-culture; Whole-cell current; Single-channel current (Fatima-Shad, K. (704) 246)

Postnatal development
Methylmercury; Neurotoxicity; Cerebral cortex; Hippocampus; Rat (Wakabayashi, K. (705) 267)

Postnatal rat
Epiplexus cell; Choroid epithelial cell; Nitric oxide synthase-like immunoreactivity; Lipopolyssacharide (Lu, J. (699) 275)

Postnatal sexual differentiation
Sexually dimorphic area pars compacta; Migration; Stereology; Gerbil; Cell death (Holman, S.D. (694) 167)

Postsynaptic dorsal column pathway
Gephyrin; Spinal cord; Retrograde tracing; Immunogold reaction (Maxwell, D.J. (690) 127)

Postsynaptic potential
Pyramidal cell; Intracellular recording; Directional tuning; Electrically evoked response (Lohmann, H. (671) 275)

Posttranscriptional control
mRNA stability; Glutamate; *N*-Methyl-D-aspartate; Hippocampal neuron (Jakoi, E.R. (693) 124)

Posture
Systemic brain cooling; Selective brain cooling; Vasoconstrictor sympathetic outflow; Ultradian wake–sleep cycle (Azzaroni, A. (671) 78)

Potassium
Astrocyte; Hypertonicity; αB-Crystallin; Heat-shock protein (Iwaki, T. (673) 47)

Glial fibrillary acidic protein; mRNA; Spreading depression; MK-801 (Bonthius, D.J. (674) 314)

Taurine; Ouabain; Cell swelling (Olson, J.E. (682) 197)

Hippocampus; Synaptic transmission; Calcium; Magnesium; pH; Temperature; Hibernation (Igelmund, P. (689) 9)

Regeneration; Sciatic nerve; Schwann cell; Calcium; Calbindin (Edström, A. (693) 148)

Depolarization; Neurofilament protein; Cytoskeleton; Trauma; Ischemia; Epilepsy (Whitson, J.S. (694) 213)

Spreading depression; Halothane; α-Chloralose; Glutamate; Microdialysis (Saito, R. (699) 109)

Bicuculline methiodide; Extracellular field potential; γ-Aminobutyric acid; Magnesium; Seizure (Watson, P.L. (700) 227)

Potassium channel
Glibenclamide; Antinociception; Analgesia (opioid); Analgesia (non-opioid); Mouse (Raffa, R.B. (677) 277)

Spinal cord injury; Spinal cord compression; Dorsal column; 4-Aminopyridine (Fehlings, M.G. (677) 291)

Metabotropic glutamate receptor; Presynaptic inhibition; Presynaptic calcium; Transmitter release; Hippocampus (Yoshino, M. (695) 179)

mGLuR; Nodose neuron (Hay, M. (698) 169)

Area postrema; Circumventricular organ; Sodium channel; Angiotensin II (Hay, M. (705) 199)

Potassium conductance
Suprachiasmatic nucleus; Circadian rhythm; Melatonin; H-current (Jiang, Z.-G. (687) 125)

Fourier analysis; Delta power; N^6-Cyclopentyladenosine; EEG; Sleep homeostasis; Sleep function (Benington, J.H. (692) 79)

Potassium current
Inward rectifier; Horizontal cell; Voltage-clamp; Sodium dependency; Retina (Pfeiffer-Linn, C.L. (701) 81)

Potassium transport
Sleep function; Sleep homeostasis; Intracerebroventricular; Sleep deprivation (Benington, J.H. (692) 86)

Potentiation
Purkinje cell; Microiontophoresis; γ-Aminobutyric acid; Norepinephrine; Alcohol; Modulation (Lee, R.-S. (687) 12)

Vasopressin; Vasopressin(4–8); Hippocampus; Transmission; Excitability (Chepkova, A.N. (701) 255)

Power spectrum
Adenosine; Electroencephalography; Non-REM sleep; REM sleep; Sleep-homeostasis (Landolt, H.-P. (675) 67)

PPI
Ventral striatum; Ventral pallidum; Sensorimotor gating; $GABA_B$ (Kodsi, M.H. (684) 26)

3-PPP
Sigma receptor; Affinity chromatography; Haloperidol; Photoaffinity labeling; Rat cerebellar receptor; Bovine cerebellar receptor (Schuster, D.I. (670) 14)

P_{2Y} purinoceptor
ATP; Dopamine; Striatum; Microdialysis; Ion channel (Zhang, Y.-X. (691) 205)

Prazosin
Fos; Stress; Noradrenergic system; Betaxolol; ICI118551; Fluphenazine; Ketanserin; WAY 100135 (Stone, E.A. (694) 279)

Precue
Basal ganglia; Putamen; Caudate nucleus; Globus pallidus; Primate; Single neuron; Motor control; Movement; Movement direction; Ipsilateral (Jaeger, D. (694) 111)

Precursor cell
Vomeronasal organ; Olfactory system; Chemosensory; Neurogenesis; Development; Nestin (Osada, T. (683) 254)

Prefrontal cortex
γ-Hydroxybutyrate; Electrophysiology; Dopamine; Sleep; Narcolepsy; Alcohol; Abuse (Godbout, R. (673) 157)

Electrical stimulation; Dopaminergic neurons; Synaptic plasticity; Sensitization (Tong, Z.-Y. (674) 63)

Dopamine transporter; [^{3}H]GBR 12935; Piperazine acceptor site; Striatum; Dopamine uptake site (Gordon, I. (674) 205)

Dopamine; Acetylcholine; Rat; Delayed-matching-to-position; Short-term memory (Broersen, L.M. (674) 221)

Thalamus; Anterograde degeneration; Horseradish peroxidase (Kuroda, M. (677) 348)

D-Serine; Post-mortem human central nervous system; Superior parietal cortex; Cerebellum; Spinal cord; Dementia of the Alzheimer type; Schizophrenia (Kumashiro, S. (681) 117)

Stress; $GABA_A$ receptor; SR 95531; Restraint (Gruen, R.J. (684) 112)

Sexual behavior; Motivation (Ågmo, A. (696) 177)

Sexual behavior; Amphetamine; Caffeine; Dopamine; Noradrenaline (Ågmo, A. (696) 187)

Social stress; Serotonin; 5-Hydroxyindoleacetic acid; Animal model; *Macaca fascicularis* (Fontenot, M.B. (705) 105)

Pregnancy
Parturition; Maternal behavior; Preoptic area; Brainstem; Oxytocin; Noradrenalin (Luckman, S.M. (669) 115)

Luteinizing hormone; Opioid receptor; Norepinephrine; Medial preoptic area; Push-pull perfusion; HPLC (Zhen, S. (698) 121)

D1 Dopamine receptor; D2 Dopamine receptor; Brain (Bakowska, J.C. (703) 191)

Pregnenolone
Neurosteroid; Steroidogenesis; Brain; Japanese quail (Tsutsui, K. (678) 1)

Hepatic encephalopathy; Ammonia; Thioacetamide; Peripheral benzodiazepine receptor; Neurosteroid (Itzhak, Y. (705) 345)

Pregnenolone sulfate
Calcium; 6-Cyano-7-nitroquinoxaline-2,3-dione; Dizocilpine; Neurosteroid; Nimodipine; *N*-methyl-D-aspartate; Spermine (Fahey, J.M. (669) 183)

Odor preference; Estrous female odor; Neurosteroid; *N*-Methyl-D-aspartate receptor; Male sexual interest; Olfactory response; Anxiety (Kavaliers, M. (682) 222)

Ethylestrenol; Anabolic steroid; Passive avoidance response; Memory (Isaacson, R.L. (689) 79)

Pregnenolone synthesis
Neurosteroid; $GABA_A$/benzodiazepine receptor; Rat retina (Guarneri, P. (683) 65)

Prejunctional inhibition
Acetylcholine; ω-Conotoxin; Nitroxidergic nerve; Vasoactive intestinal polypeptide; Magnesium (Toda, N. (700) 213)

Prenatal morphine
μ Opioid receptor; Hypothalamus; Sex dimorphism (Rimanóczy, A. (690) 245)

Prenatal protein malnutrition
Rapid kindling; Rat; Fully kindled state; Inhibition; Hippocampal formation (Shultz, P.L. (682) 35)

Prenatal stress
Medial amygdala; MePV; MePD; Sexually dimorphic nucleus; Sexual differentiation; Ejaculatory behavior; Rodent; Morphometry (Kerchner, M. (672) 251)

Amygdala; Anxiety; Brain mince; Corticotropin-releasing factor; Development; Maternal stress (Cratty, M.S. (675) 297)

Mesolimbic dopamine system; Dopamine receptor; Amphetamine-induced sensitization; Glucocorticoids (Henry, C. (685) 179)

Prenatal treatment
Sex difference; EEG; Testosterone; Interhemispheric correlation; Spectral power (Juárez, J. (694) 21)

Pre-oligodendrocyte
Human oligodendrocyte; Basic fibroblast growth factor; Statin; Apoptosis (Prabhakar, S. (672) 159)

Preoptic / anterior hypothalamus
Sleep deprivation; Thermoregulation (Feng, P.-F. (703) 93)

Preoptic area
Pregnancy; Parturition; Maternal behavior; Brainstem; Oxytocin; Noradrenalin (Luckman, S.M. (669) 115)

Estrogen receptor; Gonadotropin-releasing hormone; Hypothalamus; Rhesus macaque (Sullivan, K.A. (685) 198)

Progesterone; Progesterone-3-BSA receptor; G protein; Estrogen; Medial basal hypothalamus (Caldwell, J.D. (693) 225)

Anterior hypothalamus; Basal forebrain; Sleep–wake regulation; Non-REM sleep; Thermosensitivity (Alam, Md.N. (696) 221)

Graded impulse; Action potential; Anterior hypothalamus; Slice preparation; Patch-clamp (Johansson, S. (700) 240)

Interleukin-1β; Ventromedial hypothalamus; Hyperalgesia; Analgesia; Diagonal band of Broca; Prostaglandin; α-Melanocyte stimulating hormone; Pain (Oka, T. (700) 271)

Sexual behavior; Aromatase control; Aromatase synthesis; *Coturnix japonica*; Japanese quail; Reproduction (Foidart, A. (701) 267)

Prepacemaker nucleus
Somatostatin; Paracrine release; Autocrine function; Pacemaker nucleus; Electric fish; Biocytin; Gymnotiformes; *Apteronotus leptorhynchus* (Stroh, T. (674) 1)

Preprosomatostatin mRNA
Preprotachykinin-A mRNA; Substance P; Somatostatin; Inflammation; Dorsal root ganglia; Hybridization, in situ; Rat (Hanesch, U. (700) 279)

Preprotachykinin-A mRNA
Preprosomatostatin mRNA; Substance P; Somatostatin; Inflammation; Dorsal root ganglia; Hybridization, in situ; Rat (Hanesch, U. (700) 279)

Preprotachykinin mRNA
Substance P; Dorsal root ganglia; Synovium; Monoarthritis; Rat (Garrett, N.E. (675) 203)

Prepulse inhibition
Acoustic startle response; β-Alanine; Glycine receptor; Habituation; Hyperekplexia; Rat; Strychnine (Koch, M. (671) 63)

Pressor response
Acetylcholine; Rostral ventrolateral medulla; Physostigmine; Carbachol; Acetylcholine release (Kubo, T. (686) 1)

Pre-sympathetic neuron
Bötzinger neuron; C1 catecholaminergic neuron; Electrophysiology; Extracellular recording; Cardiovascular control; Respiratory control (Kanjhan, R. (699) 19)

Presynaptic
Spinal; Ia afferent-motoneuron; Stretch; Oligosynaptic; Human (Cheng, J. (681) 197)

Presynaptic block
Synaptic transmission; Transmitter release; Presynaptic Ca^{2+}-channel; Ca^{2+}-channel toxin; Motoneuron terminal; Electrocyte; Electric fish (Sierra, F. (683) 215)

Presynaptic Ca^{2+}-channel
Synaptic transmission; Transmitter release; Ca^{2+}-channel toxin; Presynaptic block; Motoneuron terminal; Electrocyte; Electric fish (Sierra, F. (683) 215)

Presynaptic calcium
Metabotropic glutamate receptor; Presynaptic inhibition; Transmitter release; Potassium channel; Hippocampus (Yoshino, M. (695) 179)

Presynaptic glutamate receptor
Glutamate release; Kindling; Epileptogenesis; Seizures; (1S,3S)-ACPD; D-CPPene; D-CPP (Attwell, P.J.E. (698) 155)

Presynaptic inhibition
Dorsal horn; Pain; Nociception; Spinal cord slice; Dorsal root potential; $GABA_A$ receptor (Shimizu, T. (691) 92)

Human brain slice; Facilitation; EPSP–spike relationship; Feedback inhibition (Uruno, K. (695) 163)

Metabotropic glutamate receptor; Presynaptic calcium; Transmitter release; Potassium channel; Hippocampus (Yoshino, M. (695) 179)

Presynaptic modulation
Hippocampus; Excitatory transmission; Inhibitory transmission; Metabotropic glutamate receptor (Ohno-Shosaku, T. (705) 337)

Presynaptic potential
Ischemia; Sigma receptor; Hippocampus; Neuroprotection (Shibata, S. (670) 337)

Presynaptic release
δ-Opioid receptor; Reinforcement; Excitatory synapse; Synaptic vesicle recycling (Svingos, A.L. (700) 25)

Presynaptic terminal
Active zone; 140-kDa polypeptide (Stieber, A. (700) 261)

Pretectotectal inhibition
Optic tectum; Field potential; Neuropeptide Y; Cane toad (Schwippert, W.W. (669) 150)

Pretectum
Anterior pretectal nucleus; Diencephalon; Mesencephalon; Thalamus; Antinociception; *Phaseolus vulgaris* leucoagglutinin (Terenzi, M.G. (701) 183)

Primary afferent
Nociception; Antinociception; Substance P; Naloxone; Opioid; Tail-flick test; Capsaicin; Spinal cord; C-fiber; CP-96,345; CP-96,344; CP-99,994 (Yashpal, K. (674) 97)

Dorsal root; Branching (Nagy, I. (703) 223)

Primary afferent fiber
Opioid receptor; Rat spinal cord; Dorsal rhizotomy; Receptor autoradiography (Stevens, C.W. (687) 53)

Primary afferent fibre
Nonmyelinated nerve fibre; Dichotomizing axon (McCarthy, P.W. (704) 79)

Primary auditory cortex
Monkey; Current source density; Multiunit activity; Speech; Place of articulation; Tonotopic organization (Steinschneider, M. (674) 147)

Primary motor cortex
Superior colliculus; Frontal eye field; Orofacial movement; Anterograde axonal tracing; Intracortical microstimulation; Monkey (Tokuno, H. (703) 217)

Primary muscle spindle afferent
Response to a ramp stretch; Initial burst; 'Tuning' properties of the receptor potential (Schäfer, S.S. (686) 61)

Ramp stretch response; Sinusoidal superimposition; Ia ending excitability; Receptor current (Schäfer, S.S. (705) 216)

Primary neuronal culture
21-Aminosteroid; 2-Methylaminochroman; Cyanide; Iron toxicity; Dizocilpine; Neuroprotection (Müller, U. (678) 265)

Primary sensory neuron
Coexistence; Nerve injury; Pain; Plasticity; Spinal cord (Zhang, Q. (705) 149)

Primate
Basal ganglia; Putamen; Caudate nucleus; Globus pallidus; Single neuron; Motor control; Movement; Movement direction; Precue; Ipsilateral (Jaeger, D. (694) 111)

Reach; Field potential; Oscillation; Parietal cortex; Motor preparation (MacKay, W.A. (704) 167)

Priming
Learning; Memory; Recognition; Rat; Recognition; Anesthesia; Consciousness; Rhinal cortex; Single unit; Visual; Hippocampal (Zhu, X.O. (689) 101)

Principal component analysis
Freezing technique; Culture; Neuron-specific enolase; γ-Aminobutyric acid; Thienyl-phen-

cyclidine; Computer microscope (Petite, D. (669) 263)

Prion
γ-Aminobutyric acid; Hamster; Hippocampus; Inferior colliculus; Scrapie; Immunohistochemistry (Lu, P. (681) 235)

Prion protein
Alzheimer's disease; Amylin; β2-Microglobulin; Calcium; Fura-2; Hippocampus; 2,7-Dichlorofluorescin; Vitamin E (Mattson, M.P. (676) 219)

Prodynorphin mRNA
Opioid; Gene expression; Chronic treatment; Rat brain; Nor-binaltorphimine; Naloxone; Naltrexone (Romualdi, P. (672) 42)

Proenzyme
μ-Calpain; Proteinase; Calcium; Autodigestion; Immunohistochemistry; Neuron; Nucleus (Onizuka, K. (697) 179)

Progesterone
c-fos; c-jun; Estradiol; Fos; Jun-B; Jun-D; Lordosis; Sexual behavior (Flanagan-Cato, L.M. (673) 53)

β-Endorphin; Opioid; Hypothalamus; Medial preoptic area; Estrogen; Lordosis (Cheung, S. (675) 83)

β-Endorphin; Cell culture; Hypothalamus; Cyclic AMP; Estrogen (Yang, Z. (678) 251)

Lordosis; Medial preoptic area; Ventromedial hypothalamus; Neuropeptide (Whitman, D.C. (680) 73)

Steroid; Anxiety; Motor activity; Burying behavior; Rat; 3α-Hydroxy-5α-pregnan-20-one (Picazo, O. (680) 135)

Estrogen; Glia; Plasticity; Synaptogenesis; Synapse shedding (Klintsova, A. (690) 269)

Dopamine; Sex; Lordosis; Female rat; Estrogen; Microdialysis (Pfaus, J.G. (693) 21)

Progesterone-3-BSA receptor; G protein; Estrogen; Preoptic area; Medial basal hypothalamus (Caldwell, J.D. (693) 225)

Extra-genomic; γ-Aminobutyric acid; Steroid hormone; Membrane; Hippocampus; Perforant pathway (Frye, C.A. (696) 113)

Oxytocin; Hypothalamic slice; Norepinephrine release; Estradiol (Etgen, A.M. (703) 242)

Progesterone-3-BSA receptor
Progesterone; G protein; Estrogen; Preoptic area; Medial basal hypothalamus (Caldwell, J.D. (693) 225)

Programmed cell death
Striatum; Aging (Zhang, L. (677) 177)

Apoptosis; SV40 large T antigen; Neuronal cell line (Hisanaga, K. (684) 79)

Progressive spontaneous locomotor activity changes
3-Nitropropionic acid; Huntington's disease; Striatum; Systemic injection (Borlongan, C.V. (697) 254)

Prolactin
Oxytocin; Lactation; Vasopressin; Hypothalamus; Posterior pituitary (Ghosh, R. (672) 24)

Dopamine D_1 receptor; Dopamine; Ventromedial hypothalamus; SCH23390; Sheep (Curlewis, J.D. (697) 48)

Ring dove; 2-Deoxyglucose; Autoradiography; Incubation (Lea, R.W. (700) 129)

Proliferation
Peripheral benzodiazepine receptor; Growth factor; Diazepam; Basic fibroblast growth factor; Astrocyte; DNA synthesis (Neary, J.T. (675) 27)

Cyclic adenosine 3′,5′-monophosphate; Differentiation; Galactocerebroside; Cellular process (Yamada, H. (681) 97)

Astroglia; Oxytocin; Vasopressin; Mitogen; Rat (Lucas, R.L. (681) 218)

Insulin-like growth factor-I; *N*-Methyl-D-aspartate receptor; Retina; Glia (Ikeda, T. (686) 87)

Neuronatin; Development; Brain; Gene; Neuroepithelium; Commitment; Differentiation; Migration (Joseph, R. (690) 92)

Proliferative vitreoretinopathy
Müller glia; Pigment epithelium; Retinal development; Cell proliferation assay; Rat (Jaynes, C.D. (678) 55)

Promoter
μ Opioid receptor; Genomic DNA; Transcription initiation site (Liang, Y. (679) 82)

B-50/GAP-43; Transcription; Translation; Polyribosome (Eggen, B.J.L. (690) 73)

Proopiomelanocortin
Neuropeptide Y mRNA; Arcuate nucleus; Neuropeptide Y receptor; Hybridization, in situ; Autoradiography (Garcia de Yebenes, E. (674) 112)

Propagation
Olfactory bulb; Kainic acid; Seizure; Cerebral glucose utilization; Electroencephalogram (Araki, T. (693) 207)

Propidium iodide staining
Organotypic hippocampal culture; Oxygen deprivation; Glucose deprivation; Glutamate receptor antagonists; Neuroprotection (Strasser, U. (687) 167)

Prostaglandin
Astrocyte; Microglia; Arachidonic acid; Eicosanoid; Leukotriene (Matsuo, M. (685) 201)

Interleukin-6; Hyperalgesia; α-Melanocyte-stimulating hormone; Pain; Central nervous system (Oka, T. (692) 123)

Cyclooxygenase-2; Lipopolysaccharide; Fever; Brain; Hybridization, in situ (Cao, C. (697) 187)

Fever mechanism; Neonate; Pyrogen; Leukotriene; Platelet activating factor; Blood-brain barrier; Organum vasculosum laminae terminalis (Coceani, F. (700) 191)

Interleukin-1β; Preoptic area; Ventromedial hypothalamus; Hyperalgesia; Analgesia; Diagonal band of Broca; α-Melanocyte stimulating hormone; Pain (Oka, T. (700) 271)

Prostaglandin E_2
Hyperalgesia; *N*-Methyl-D-aspartate receptor; Spinal cord; Prostaglandin E_2 receptor (Nishihara, I. (677) 138)

Prostaglandin E_2 receptor
Prostaglandin E_2; Hyperalgesia; *N*-Methyl-D-aspartate receptor; Spinal cord (Nishihara, I. (677) 138)

Protease
Astrocyte; Axon regeneration; Extracellular matrix; Adhesion molecule (Fok-Seang, J. (689) 207)

Protective effect
Angiogenesis; Basic fibroblast growth factor; Hippocampus; Intracerebral hemorrhage; Intracerebral mass lesion; Ischemia; Rat (Kawakami, N. (697) 104)

Protein
Rat; Diet; Brain; Hypothalamus; Retina; Tyrosine; Dopamine; Catecholamine; Appetite (Fernstrom, M.H. (672) 97)

β-Protein
Smooth muscle cell; β-Amyloid; β-Amyloid precursor protein; Tissue culture (Frackowiak, J. (676) 225)

Smooth muscle cell; ApoE3/E4; Transthyretin; Tissue culture (Mazur-Kolecka, B. (698) 217)

Proteinase
μ-Calpain; Proenzyme; Calcium; Autodigestion; Immunohistochemistry; Neuron; Nucleus (Onizuka, K. (697) 179)

Protein kinase A
Calcitonin gene-related peptide; Dorsal root ganglia neuron; Gene expression; Glucocorticoid; Protein kinase C (Supowit, S.C. (686) 77)

Protein kinase C
Nerve growth factor; Protooncogene; Cyclic AMP; Calcium (Jehan, F. (672) 128)

Hippocampus; Mouse; Spatial learning; Oxiracetam (Fordyce, D.E. (672) 170)

PKC; Isoenzyme; IMHV; Imprinting; Double-labeling; Neuron-specific enolase; S100; Glial cell (Van der Zee, E.A. (676) 41)

Hippocampus; Spatial discrimination; Rat (Golski, S. (676) 53)

Chemical hypoxia; Differentiated PC12 cells; Cyanide; Immunohistochemistry; Western blotting; LDH; Cytotoxicity (Pavlaković, G. (676) 205)

Corticotropin-releasing hormone; Brain cell culture; CRH receptor; Extrahypothalamic; Cyclic AMP; Anterior pituitary; Modulation; Corticosterone; Dexamethasone; Vasopressin; Glucocorticoid (Kapcala, L.P. (678) 207)

Kindling; Epilepsy; Neuronal plasticity; Amygdala, Hippocampus (Akiyama, K. (679) 212)

Interleukin-1β; Serotonin; Intracellular calcium; Tyrosine kinase; C6BU-1 glioma (Kugaya, A. (682) 151)

Aplysia; Action potential; Phorbol diacetate; H-7 (Papp, A. (684) 107)

Phorbol ester binding; Inhibitory avoidance; Hippocampus; Amygdala; Autoradiography (Bernabeu, R. (685) 163)

Calcitonin gene-related peptide; Dorsal root ganglia neuron; Gene expression; Glucocorticoid; Protein kinase A (Supowit, S.C. (686) 77)

Xenopus oocyte; Glycine receptor; α1 Subunit; α2 Subunit; Whole-cell voltage clamp (Nishizaki, T. (687) 214)

Morphine; Opiate withdrawal; Locus coeruleus; Glutamate; Metabotropic receptor; Desensitization; Protein phosphatase (Kogan, J.H. (689) 111)

Rat pinealocyte; Nitric oxide; Cyclic GMP; Ca^{2+}; Phoshodiesterase (Spessert, R. (694) 207)

Astrocyte; Calcium; Immunocytochemistry; Suprachiasmatic nucleus; Vasopressin (Van der Zee, E.A. (701) 99)

Astrocyte; Rat; Brain (Roisin, M.-P. (701) 297)

Adenylate cyclase; Second messenger; Aging; Brain; Receptor autoradiography; Rat (Araki, T. (704) 227)

Protein kinase C gamma
Tolerance; Morphine; Immunocytochemistry; Spinal cord; Analgesia (Mao, J. (677) 257)

Protein kinase C isoenzyme
Translocation; Synaptic plasticity; Long-term potentiation; Glutamate receptor agonist (Staak, S. (682) 55)

Protein kinase II
Cerebral ischemia; CA1; CA3; Gerbil (Babcock, A.M. (705) 307)

Protein level
Acid phosphatase; Low molecular weight; Antibody; Activity; Alzheimer's disease (Shimohama, S. (699) 125)

Protein phosphatase
Morphine; Opiate withdrawal; Locus coeruleus; Glutamate; Metabotropic receptor; Desensitization; Protein kinase C (Kogan, J.H. (689) 111)

Protein phosphorylation
Chelerythrine; Kinase inhibitor; Taurine; Retina (Lombardini, J.B. (673) 194)

Protein synthesis
Cell death; Auditory system; Nucleus magnocellularis; Y10B antibody; Afferent deprivation; Brain slice (Hyson, R.L. (672) 196)

Hyperactivity; Axon; Goldfish; M-neuron; Plasticity (Eugenín, J. (677) 319)

Circadian rhythm; Suprachiasmatic nucleus; Pacemaker; Anisomycin; Cell culture; Antisense; Vasopressin (Watanabe, K. (684) 179)

Long-term potentiation; Mouse; Dentate granule cell; Cycloheximide; Anisomycin; Calcium buffering (Namgung, U. (689) 85)

Protein transport
Nerve; Cold block; Transport reversal; Microtubule; Taxol (Smith, R.S. (672) 205)

Intranasal; Olfactory bulb; Drug delivery; Alzheimer's disease (Thorne, R.G. (692) 278)

Proteoglycans
Aging; Amyloidosis; Apolipoprotein E; Neuropathology (Permanne, B. (685) 154)

Proto-oncogene
Immediate-early gene; Heat-shock; Middle cerebral artery occlusion; Stroke; Hybridization, in situ (Soriano, M.A. (670) 317)

Nerve growth factor; Cyclic AMP; Calcium; Protein kinase C (Jehan, F. (672) 128)

c-*fos* Proto-oncogene
Brain stimulation; Aversion; Defense; Kainate; $GABA_A$ antagonist; Medial hypothalamus; Limbic system (Silveira, M.C.L. (674) 265)

Protoporphyrin
Bilirubin; Cyclic GMP; Cytochrome P_{450}-reductase; Heme oxygenase; Iron (Laitinen, J.T. (694) 246)

Pseudorabies virus
Autonomic nervous system; Cardiovascular regulation; Corticotrophin releasing factor; Enkephalin; Heart; Lateral hypothalamic area; Medulla oblongata; Neuropeptide Y; Oxytocin; Paraventricular hypothalamic nucleus; Raphe nuclei; Serotonin; Somatostatin; Stellate ganglion; Sympathetic nervous system (Jansen, A.S.P. (683) 1)

Viral envelope glycoprotein; Sympathetic nervous system (Sams, J.M. (687) 182)

Swallowing; Nucleus ambiguus; Nucleus of the solitary tract; Pharynx (Bao, X. (696) 246)

Psychosis
6-Hydroxydopamine lesion; Voltammetry; Cortical; Subcortical (Thompson, T.L. (686) 93)

p38 (synaptophysin)
SCG; Decentralization; GAP-43; Immunohistochemistry; Confocal laser scanning microscopy (Hou, X.-E. (679) 49)

Pterygopalatine ganglion
Superior salivatory nucleus; Cholera toxin B subunit; Tyrosine hydroxylase; Serotonin; Neuropeptide; Double-immunostaining technique (Nemoto, T. (685) 33)

P-type Ca^{2+} channel
Rat cerebellar Purkinje neuron; Nystatin-perforated patch-clamp; Diltiazem; Verapamil (Ishibashi, H. (695) 88)

κ-Opioid receptor; U50488; G-protein; Dynorphin A; Norbinartorphimine; Purkinje cell; Rat (Kanemasa, T. (702) 207)

Pupillary constriction
Olivary pretectal nucleus; Efferent; *Phaseolus vulgaris* leucoagglutinin (Klooster, J. (688) 34)

Pupillary light reflex
Olivary pretectal nucleus; Efferent; Electron microscopy; *Phaseolus vulgaris* leucoagglutinin (Klooster, J. (688) 47)

Purine
Adenosine; γ-Aminobutyric acid; Neurosteroid; Alphaxalone; Allopregnan; Hippocampus (Akhondzadeh, S. (677) 311)

Purkinje cell
Microiontophoresis; γ-Aminobutyric acid (GABA); Alcohol; Ro15-4513; Imidazobenzodiazepine (Lee, R.-S. (687) 1)

Microiontophoresis; γ-Aminobutyric acid; Norepinephrine; Alcohol; Potentiation; Modulation (Lee, R.-S. (687) 12)

Spinocerebellum; Dorsal spinocerebellar tract (Perciavalle, V. (695) 293)

DNA fragmentation; Global brain ischemia; Granular cell; Apoptosis; Nick-end labeling (Hara, A. (697) 247)

Voltage sensitive dye; Imaging; Fluorescence (Kogan, A. (700) 235)

κ-Opioid receptor; U50488; P-type Ca^{2+} channel; G-protein; Dynorphin A; Norbinartorphimine; Rat (Kanemasa, T. (702) 207)

Purkinje neuron
Cerebellum; Ethanol; Alcohol; ACPD; Quisqualate; Glutamate; Culture (Netzeband, J.G. (688) 105)

Genetic epilepsy; Neuron sensitivity; $GABA_A$ receptor; Muscimol; Flunitrazepam; Baclofen; Iontophoresis; Ligand binding (Gould, E.M. (698) 62)

Push–pull perfusion
Olfactory bulb; Noradrenaline; Evoked field potential; Rat (Mouly, A.-M. (681) 47)

Interleukin-1β; Anterior hypothalamic area; Paraventricular nucleus (Phelps, C.P. (688) 193)

Norepinephrine; Dopamine; Hypothalamus; Estrous cycle; Aging (ThyagaRajan, S. (689) 122)

Luteinizing hormone; Opioid receptor; Norepinephrine; Medial preoptic area; Pregnancy; HPLC (Zhen, S. (698) 121)

Neuropeptide Y; β-Endorphin; Luteinizing hormone; Feeding; Hypothalamus; Opiate (Kalra, P.S. (705) 353)

Push–pull superfusion
Locus coeruleus; Glutamate release; Aspartate release; GABA release; Immobilization stress; Tail pinch; Blood pressure (Singewald, N. (704) 42)

Putamen
Bicuculline; Dystonia; Neuronal mechanism; Substantia nigra pars reticulata; Single unit recording (Yamada, H. (677) 333)

Basal ganglia; Caudate nucleus; Globus pallidus; Primate; Single neuron; Motor control; Movement; Movement direction; Precue; Ipsilateral (Jaeger, D. (694) 111)

Putrescine
Spermine; Spermidine; Neurite regeneration; Basic fibroblast growth factor; Cultured hippocampal neuron (Chu, P.-j. (673) 233)

Spermidine; Spermine; Chronic cocaine; Convulsion; Mouse (Shimosato, K. (684) 243)

Pyramidal cell
Intracellular recording; Postsynaptic potential; Directional tuning; Electrically evoked response (Lohmann, H. (671) 275)

Pyramidal neuron
Association neocortex; AMPA/kainate receptor; Glutamate receptor; Human brain (Vickers, J.C. (671) 175)

Second messenger; Serine/threonine protein phosphatase; Immunolocalisation; Dendrite; Spine (Lowenstein, P.R. (676) 80)

Sensorimotor cortex; Layer V; Burst firing (Franceschetti, S. (696) 127)

Hippocampus; Dendrite; Afterhyperpolarization; Calcium-dependent potassium current; Carbachol (Andreasen, M. (698) 193)

Pyramidal tract
Undernutrition; Myelin; Spinal cord; D-wave; I-wave; Development (Quirk, G.J. (670) 277)

Motor unit; Magnetic stimulation; Silent period (Rossini, P.M. (676) 314)

Pyrogen
Fever mechanism; Neonate; Prostaglandin; Leukotriene; Platelet activating factor; Blood-brain barrier; Organum vasculosum laminae terminalis (Coceani, F. (700) 191)

Pyroglutamyl peptidase II
Thyrotropin releasing hormone; Kindling; Ectopeptidase; Neuropeptide (De Gortari, P. (679) 144)

PYY binding
Neuropeptide Y-(13–36); Neuropeptide Y receptor; Spontaneously hypertensive rat; Nucleus tractus solitarius; Autoradiography; Blood pressure; Intracerebroventricular injection; Rat brain (Aguirre, J.A. (684) 159)

Q

Q-current
Motoneuron; Passive electrical property; Sag (Engelhardt, J.K. (675) 241)

Quail
Estrogen receptor; Aromatase; Aging; Sexual behavior (Dellovade, T.L. (674) 181)

Photoperiod; Sexual maturation; Testosterone; Brain metabolism; 2-DG; Sensory system (Teruyama, R. (697) 169)

Quantal release
Synaptotagmin II; Synaptic vesicle; Immunolabelling; Lanthanum; α-Latrotoxin; Mouse neuromuscular junction (Angaut-Petit, D. (681) 213)

Quantitative analysis
NOS; NADPH-d; NOS-inhibitor; Facial nerve avulsion; Facial motor neuron; Neurodestruction (Ruan, R.-S. (698) 163)

Quantitative autoradiography
[^{3}H]WAY-100635; 5-HT$_{1A}$ antagonist; Central nervous system; Rat; [^{3}H]8-OH-DPAT (Khawaja, X. (673) 217)

Amphetamine; Behavioral sensitization; Dopamine receptor; Serotonin receptor (Bonhomme, N. (675) 215)

Transplantation; Spinal cord; Noradrenaline; α_1-Adrenoceptor; [^{3}H]Prazosin (Roudet, C. (677) 1)

Angiotensin II; AT$_2$ receptor; CGP 42112; Medial geniculate nucleus; Inferior olive; Brain development (Heemskerk, F.M.J. (677) 29)

Brain; Arachidonate; Docosahexaenoate; Palmitate; Deoxyglucose; Visual system; Orbital enucleation; Rat; Fatty acid; Lipid; Phospholipid; Glucose; Vision; Neuroplasticity (Wakabayashi, S. (679) 110)

Arginine-vasopressin; Ventrolateral hypothalamus; Sexual differences (Delville, Y. (681) 91)

Arginine-vasopressin; Lactation; Ventrolateral hypothalamus; Dorsomedial hypothalamic nucleus; Suprachiasmatic nucleus (Delville, Y. (689) 147)

Dopamine transporter; Cocaine receptor; RTI-55; WIN 35,428; Dopamine metabolism; Dopamine uptake (Coulter, C.L. (690) 217)

Angiotensin receptor; Median eminence; Second messenger system (Seltzer, A.M. (705) 24)

Hippocampus; Circumventricular organ; Guanine nucleotide; Brain angiotensin system; Receptor pharmacology (De Oliveira, A.M. (705) 177)

Quantitative image analysis
Olfactory nerve; Pigeon; Transection; Horseradish peroxidase; Reinnervation; Olfactory bulb (Jennings, R.A. (683) 159)

Quantitative receptor autoradiography
[^{3}H]8-OH-DPAT; [^{3}H]Cyanoimipramine; 5-HT$_{1A}$ receptor; Serotonin transporter; HPLC; 5-HIAA (Arango, V. (688) 121)

Quinine
Taste; Acetylcholine; Microdialysis; Insular cortex; Taste aversion; Rat (Shimura, T. (679) 221)

Quinolinic acid
6-Hydroxydopamine; Striatum; Substantia nigra; Dopaminergic system; Neuroprotection (Venero, J.L. (672) 153)

Tyrosine hydroxylase; Excitotoxicity; L-NAME; Nitric oxide synthase (Connop, B.P. (676) 124)

Striatum; 3-Nitropropionic acid; Huntington's disease; Apomorphine; Rotational behavior; Motor behavior asymmetry (Borlongan, C.V. (676) 231)

Quinpirole
Dopamine release; Acetylcholine; Dopamine D$_2$-receptor; Sulpiride; Hyperkinesis (Russell, V. (676) 343)

Immediate-early gene; c-*fos*; D$_1$ receptor; D$_2$ receptor; Synergism; Globus pallidus; Subthalamic nucleus; SKF 38393 (Ruskin, D.N. (703) 156)

Quisqualate
Purkinje neuron; Cerebellum; Ethanol; Alcohol; ACPD; Glutamate; Culture (Netzeband, J.G. (688) 105)

R

Rabbit
Aluminum; Neurodegeneration; Tau (Savory, J. (669) 325)

Medial geniculate; Amygdala; Conditioning; Habituation; Extinction; Heart rate (McEchron, M.D. (682) 157)

Tumor necrosis factor; Sleep suppression; Rat (Takahashi, S. (690) 241)

Calcium channel; ω-Conopeptide MVIIC; Conopeptide; Brain ischemia; Hypothermia; Excitatory amino acid; Microdialysis (Wu, G. (692) 118)

Fever; Lipopolysaccharide; α_1-Adrenoceptor; α_2-Adrenoceptor subtype; Sympathetic nervous system; Norepinephrine (Bencsics, A. (705) 302)

Raclopride
Haloperidol; Chlorpromazine; Risperidone; Thioridazine; Clozapine; Ritanserin; Fos; Forebrain; Immunohistochemistry (Wan, W. (688) 95)

Dopamine; Blood pressure; Ventral tegmental area; Substantia nigra; SCH 23390; Vasopressin; DiMe-C7; Substance P (Cornish, J.L. (701) 28)

[^{3}H]Raclopride
Schizophrenia; D$_4$-dopamine receptor; Guanine nucleotide; Gpp(NH)p; Human brain; [^{3}H]YM-09151–2; Major depression (Sumiyoshi, T. (681) 109)

Radial arm maze
Spatial memory; Learning strategy; High affinity choline transport; Cholinergic; Rat (Janis, L.S. (679) 99)

Radioimmunoassay
Insulin-like growth factor I; Neuron cell culture; IGF I receptor; Peroxidase anti-peroxidase; Hybridization, in situ; IGF I internalization (Schechter, R. (670) 1)

Cerebellin; Corticotropin-releasing hormone; Olivopontocerebellar atrophy; Shy-Drager syndrome; Neuropeptide; Cerebellum; Multiple system atrophy (Mizuno, Y. (686) 115)

PAG; γ-Aminobutyric acid; Bicuculline; Nociception; Opioid peptide (Williams, F.G. (690) 207)

Pituitary adenylate cyclase activating polypeptide; Human brain nuclei; Microdissection (Palkovits, M. (699) 116)

Hippocampal cholinergic neurostimulating peptide; Hippocampal cholinergic neurostimulating peptide precursor protein; High-performance liquid chromatography; Nervous system; Aging (Ojika, K. (701) 19)

Radioligand
Alzheimer's disease; Muscarinic receptor; m2 subtype; Brain imaging (Gitler, M.S. (687) 71)

Radioligand binding
N-Methyl-D-aspartate receptor; Darting behavior; Polyamine; Neuromodulator; Rat prefrontal cortex; [^{3}H]MK-801 (Savelli, J.E. (682) 41)

Ramp stretch response
Primary muscle spindle afferent; Sinusoidal superimposition; Ia ending excitability; Receptor current (Schäfer, S.S. (705) 216)

Raphe
Serotonin release; Culture; Fenfluramine; 3,4-Methylenedioxyamphetamine; *p*-Chloroamphetamine; Nimodipine; Conotoxin; Fluoxetine (Wichems, C.H. (695) 10)

Vagus; Medulla oblongata; Feeding; Microdialysis (Mohammed, J.R. (695) 100)

Raphe magnus
Isoflurane; General anesthetic; MAC; Nociceptive modulation; Pain (Leung, C.G. (699) 71)

Raphe nuclei
Autonomic nervous system; Cardiovascular regulation; Corticotrophin releasing factor; Enkephalin; Heart; Lateral hypothalamic area; Medulla oblongata; Neuropeptide Y; Oxytocin; Paraventricular hypothalamic nucleus; Pseudorabies virus; Serotonin; Somatostatin; Stellate ganglion; Sympathetic nervous system (Jansen, A.S.P. (683) 1)

Raphe system
Parafascicular nucleus; Thalamus; Biocytin; Dextran amine; Motor control; Rat (Marini, G. (690) 177)

Rapid kindling
Prenatal protein malnutrition; Rat; Fully kindled state; Inhibition; Hippocampal formation (Shultz, P.L. (682) 35)

Rarefaction
Permanent occlusion of bilateral common carotid artery; Infarction; Acetylcholine; Ischemia; Rat (Ni, J.-W. (673) 290)

Rat
Striatum; Cerebrospinal fluid; Dopamine; MPP^+; 6-Hydroxydopamine; Parkinson's disease (Espino, A. (669) 19)

Cyclic GMP; Cerebral blood flow; Cerebral oxygen consumption; Nitrate; Guanylate cyclase (Lu, X. (669) 35)

Aging; Lesion; Nucleus basalis magnocellularis; Neocortex; Morphology; Plasticity (Wellman, C.L. (669) 48)

Middle cerebral artery; Cerebral ischemia; Muscarinic agonist; Acetylcholine; Behavior (Yamaguchi, T. (669) 107)

Brain; Focal ischemia; Dizocilpine maleate; Infarct size; Hyperthermia (Memezawa, H. (670) 48)

Odorant exposure; Voltage-sensitive dye; Optical recording; Odorant identification; Neurophysiology (Youngentob, S.L. (670) 82)

Locomotion; Nicotine; Ventral tegmentum; Mesolimbic; Dopamine (Museo, E. (670) 257)

Sensitization (Badiani, A. (670) 264)

Dorsal rhizotomy; Immunoreactive dynorphin; Spinal cord; Cerebral area; Deafferentation pain; Deafferentation syndrome; Neuroplasticity (Candeletti, S. (670) 289)

Long-term potentiation; E–S potentiation; Dendritic membrane activation; Current–source density analysis; Hippocampus; Slice; CA1 (Vida, I. (671) 1)

Acoustic startle response; β-Alanine; Glycine receptor; Habituation; Hyperekplexia; Prepulse inhibition; Strychnine (Koch, M. (671) 63)

AMPA receptor; Immunocytochemistry; Ultrastructure; Confocal microscopy; Vestibular system; Guinea pig (Demêmes, D. (671) 83)

Amygdala; Epileptogenesis; Immunohistochemistry; Kindling (Ebert, U. (671) 338)

Retrograde axonal transport; Albumin; Transferrin; Transferrin receptor; Lysosome; Motor neuron; Ultrastructure; Toxic metal; Amyotrophic lateral sclerosis (Moos, T. (672) 14)

Arginine; Autoregulation; Cerebral blood flow; Hypertension; Nitric oxide; Nitric oxide synthase (Talman, W.T. (672) 48)

Diet; Protein; Brain; Hypothalamus; Retina; Tyrosine; Dopamine; Catecholamine; Appetite (Fernstrom, M.H. (672) 97)

Associative LTP; CA1 region; Atropine; Acetylcholine; Synaptic plasticity; Hippocampus (Sokolov, M.V. (672) 281)

Stress; Corticosterone; Hypothalamic-pituitary-adrenal axis; Novel environment; Novelty; Sensitization; Context-specific sensitization; Environment-specific sensitization; Rotational behavior; Locomotor activity; Rearing behavior (Badiani, A. (673) 13)

[^{3}H]WAY-100635; 5-HT_{1A} antagonist; Quantitative autoradiography; Central nervous system; [^{3}H]8-OH-DPAT (Khawaja, X. (673) 217)

Cocaine; Conditioned place preference; SCH 23390; (−)-Sulpiride; MK-801; DNQX (Cervo, L. (673) 242)

Permanent occlusion of bilateral common carotid artery; Infarction; Rarefaction; Acetylcholine; Ischemia (Ni, J.-W. (673) 290)

Glutamate; Hippocampus; Kainic acid; Microdialysis; Nitric oxide; Seizure (Rigaud-Monnet, A.-S. (673) 297)

Calcium-binding protein; Calcium buffer; Calretinin; Salt loading; Hypothalamic paraventricular nucleus; Supraoptic nucleus (Arai, R. (673) 339)

Caudate-putamen; Globus pallidus; Sensorimotor integration; Auditory; Somatosensory; Electrophysiology; Multisensory response properties (Chudler, E.H. (674) 33)

Closed-head injury; Edema; Memory; HU-211 (Shohami, E. (674) 55)

Substantia nigra pars reticulata; Superior colliculus; Parvicellular reticular formation; Axon collateral (Yasui, Y. (674) 122)

Cortex; Recovery; Motor function; Norepinephrine; Stroke; Trauma (Goldstein, L.B. (674) 167)

Dopamine; Acetylcholine; Prefrontal cortex; Delayed-matching-to-position; Short-term memory (Broersen, L.M. (674) 221)

Cognition-enhancing; Aging; Nicotine; Acetylcholine; Nicotinic agonist; Age-associated memory impairment (Arendash, G.W. (674) 252)

Retina; Ganglion cell; Ventral lateral geniculate; Posterior lateral nucleus; Retrograde double-labeling; Ipsilateral; Fluorescent tracer (Farid Ahmed, A.K.M. (674) 275)

Conditioning; Context-specific sensitization; Environment-specific sensitization; Novelty; Stress; Rotational behavior; Striatum; Dopamine (Badiani, A. (674) 291)

Substance P receptor; Spinal cord; Parabrachial nucleus; Nociception (Ding, Y.-Q. (674) 336)

Apolipoprotein E; Apolipoprotein J; Global cerebral ischemia; Cardiac arrest; Alzheimer's disease (Kida, E. (674) 341)

Focal cerebral ischemia; Strain differences; Intraluminal thread; Filament (Oliff, H.S. (675) 20)

Heat shock cognate protein 70; Heat shock protein; Restraint-water immersion stress; Cere-

bral cortex; Stomach; mRNA; Northern blotting (Fukudo, S. (675) 98)

Acute and chronic stress; Immobilization; Brain protein synthesis; Autoradiography; L-[^{35}S]Methionine (Giaume, M. (675) 121)

Nitric oxide; Opioid peptide; Neuronal release (Hara, S. (675) 190)

Substance P; Preprotachykinin mRNA; Dorsal root ganglia; Synovium; Monoarthritis (Garrett, N.E. (675) 203)

N-Methyl-4-phenylpyridinium ion; Neurodegeneration; Parkinson's disease; Dopamine; Substantia nigra; Carboline (Neafsey, E.J. (675) 279)

Hippocampus; Protein kinase C; Spatial discrimination (Golski, S. (676) 53)

Gurmarin; Anti-sweet taste; *Gymnema sylvestre* (Miyasaka, A. (676) 63)

Reinnervation; Hyperinnervation; Hyper-reinnervation; Motor unit; Muscle (Kuiken, T.A. (676) 113)

Formalin; Hyperalgesia; Orofacial; Plasticity; Trigeminal (Cadet, R. (676) 189)

Taurine; Organ of Corti; Guinea pig; Immunocytochemistry (Usami, S.-i. (676) 277)

Glutamate; Glutamine; Compartmentation; Vestibular endorgan; Immunocytochemistry (Usami, S.-i. (676) 285)

Satiety substance; c-fos; Tyrosine hydroxylase; Immunohistochemistry; Hypothalamus (Hisano, S. (676) 409)

Interleukin-1; Interleukin-1 receptor antagonist; Social behavior; Body weight (Bluthé, R.-M. (677) 171)

Müller glia; Pigment epithelium; Retinal development; Cell proliferation assay; Proliferative vitreoretinopathy (Jaynes, C.D. (678) 55)

Cadmium chloride; Astrocyte; Metallothionein; D-Aspartate (Rising, L. (678) 91)

Opioid; Feeding; Dietary obesity; Mu receptor; Delta receptor; Kappa receptor (Cole, J.L. (678) 168)

Dopamine; Cocaine; Sensitization; Fast cyclic voltammetry; Nucleus accumbens; Ventral tegmental area (Williams, J.E.G. (678) 225)

Cerebral ischemia; Focal ischemia; Heat shock protein; HSP27; HSP70; Immunohistochemistry (Kato, H. (679) 1)

Benzodiazepine receptor; Hepatic encephalopathy; Antibiotic; *Acinetobacter*; Brain (Yurdaydin, C. (679) 42)

Spatial memory; Radial arm maze; Learning strategy; High affinity choline transport; Cholinergic (Janis, L.S. (679) 99)

Brain; Arachidonate; Docosahexaenoate; Palmitate; Deoxyglucose; Quantitative autoradiography; Visual system; Orbital enucleation; Fatty acid; Lipid; Phospholipid; Glucose; Vision; Neuroplasticity (Wakabayashi, S. (679) 110)

Parvalbumin; Calretinin; Trigeminal ganglion; Tooth pulp (Ichikawa, H. (679) 205)

Taste; Acetylcholine; Microdialysis; Insular cortex; Quinine; Taste aversion (Shimura, T. (679) 221)

Neurocalcin; Calcium-binding protein; Inner ear; Immunohistochemistry (Iino, S. (680) 128)

Steroid; Anxiety; Motor activity; Burying behavior; 3α-Hydroxy-5α-pregnan-20-one; Progesterone (Picazo, O. (680) 135)

Olfactory bulb; Noradrenaline; Evoked field potential; Push–pull perfusion (Mouly, A.-M. (681) 47)

Diabetes mellitus; Experimental; Streptozocin; Hypothalamus; Somatotropin-releasing hormone; Somatostatin (Leidy, Jr., J.W. (681) 84)

State-dependent learning; Muscimol; Bicuculline; Place learning; Morris water maze task (Nakagawa, Y. (681) 126)

Hippocampus; Dopamine D_2 receptor; [^{3}H]YM-09151–2; Receptor autoradiography (Yokoyama, C. (681) 153)

Dorsal root ganglion; Peripheral sensory innervation; Dopamine; DOPA; 3-*O*-methyl-DOPA; HPLC-ED; Sympathectomy (Bertrand, A. (681) 201)

Astroglia; Proliferation; Oxytocin; Vasopressin; Mitogen (Lucas, R.L. (681) 218)

Angiotensin II; Angiotensin IV; AT_4 receptor; Autoradiography; c-Fos expression; Hippocampus; Guinea pig (Roberts, K.A. (682) 13)

Prenatal protein malnutrition; Rapid kindling; Fully kindled state; Inhibition; Hippocampal formation (Shultz, P.L. (682) 35)

Kindling; Seizure; Epilepsy; Brainstem; Amygdaloid body (Chiba, S. (682) 50)

Picrotoxin; Convulsion; Fos; Immunohistochemistry; Cortex; Thalamus; Caudate-putamen; Hippocampus (Willoughby, J.O. (683) 73)

Neural network; Structural equation modeling; Multimodal interaction; Pavlovian conditioning; Auditory learning; Path analysis; 2-Deoxyglucose (McIntosh, A.R. (683) 228)

Mimic RT-PCR; HSP72; HSC73; Ischemia (Abe, K. (683) 251)

Discrimination learning; Hippocampus; Septum; Acetylcholine; Dopamine; Microdialysis; Dual probe (Yamamuro, Y. (684) 1)

Nitric oxide synthase; NADPHd; Retina; Vasculature; Co-localisation; Human (Roufail, E. (684) 36)

Tau; Focal cerebral ischaemia; Cytoskeleton; Axon; Glia (Dewar, D. (684) 70)

Cerebellum; Aging; Motor learning; Norepinephrine; β-Adrenergic receptor (Gould, T.J. (684) 150)

Direct current; Brain; Sensorimotor cortex; Dark neuron; ^{45}Ca autoradiography; Anodal polarization (Islam, N. (684) 206)

REM sleep; PACAP; Temperature; Sleep; EEG (Fang, J. (686) 23)

BIBN 99; Cholinergic; M2 antagonist; Memory; Morris water maze; Muscarinic; Traumatic brain injury; Treatment (Pike, B.R. (686) 37)

State-dependent learning; Ethanol; Diazepam; Muscimol; Benzodiazepine/$GABA_A$ receptor complex (Nakagawa, Y. (686) 70)

Fluorescein isothiocyanate albumin; Microcirculation; Pial venule; L-NMMA; L-NAME (Mayhan, W.G. (686) 99)

Aging; Hippocampus; LTP; Morris water maze (Diana, G. (686) 107)

Unilateral nigrostriatal lesion; Striatum; Dopamine contents; Ipsilateral rotation; 6-Hydroxydopamine (Matsuda, H. (686) 111)

Sleep; Wake; Nucleus raphe dorsalis; Local injection; Corticotropin-like intermediate lobe peptide; Vasoactive intestinal polypeptide; *p*-Chlorophenylalanine (El Kafi, B. (686) 150)

Thyroid hormone; Enkephalin mRNA; Dynorphin mRNA; Hippocampus; Kainic acid; Hybridization, in situ (Giardino, L. (687) 83)

Heat shock; Phencyclidine; DNQX; Excitotoxicity; AMPA receptor; Cortex; Ketamine (Sharp, J.W. (687) 114)

CGS 8216; Somatostatin receptor; Ammonium acetate; Frontoparietal cortex; Hippocampus (Boyano-Adánez, M.C. (688) 1)

Nitric oxide; N^{ω}-Nitro-L-arginine methyl ester; Pentylenetetrazol; Kindling; Epilepsy; Glutamate binding (Becker, A. (688) 230)

Methylmercury; Astrocyte; Aspartate; Glutathione; Glutamate (Aschner, M. (689) 1)

Learning; Memory; Recognition; Priming; Recognition; Anesthesia; Consciousness; Rhinal cortex; Single unit; Visual; Hippocampal (Zhu, X.O. (689) 101)

Chorda tympani; Licking; Taste; Mechanical stimulation; Saliva; Conduction velocity (Matsuo, R. (689) 289)

Closed head injury; Fos immunohistochemistry; *N*-Methyl-D-aspartate receptor; Lactation (Woodside, B. (690) 48)

Dihydroxyphenylacetic acid; 5-Hydroxyindoleacetic acid; Homovanillic acid; Hypothalamic paraventricular nucleus; Microdialysis, in vivo; Neuropeptide Y; Noradrenaline (Pavia, J.M. (690) 108)

Opioid; Mu-opioid receptor; CTOP; Ventral tegmental area; Nucleus accumbens; Feeding; Drinking; Locomotor activity (Badiani, A. (690) 112)

Olfaction; Dentate gyrus; Hippocampus; Fast wave; Evoked potential; Kainic acid; Colchicine (Heale, V.R. (690) 157)

Parafascicular nucleus; Thalamus; Raphe system; Biocytin; Dextran amine; Motor control (Marini, G. (690) 177)

Hypothalamus; Neuropeptide Y; Zucker; Obesity (Dryden, S. (690) 185)

σ_1 Receptor; Hippocampus; Acetylcholine; SKF-10,047 (*N*-allylnormetazocine); Haloperidol; Amnesia; Stereoselectivity (Matsuno, K. (690) 200)

Enkephalin; Cerebellar nucleus; Cervical cord; Cerebellospinal projection; Immunohistochemistry; Double labelling (Ikeda, M. (690) 225)

Inferior colliculus; Enkephalin; Neuropeptide Y; Ascending auditory projections; Commissural fiber (Nakagawa, H. (690) 236)

Tumor necrosis factor; Sleep suppression; Rabbit (Takahashi, S. (690) 241)

Dopamine; Excitatory synaptic transmission; Sulpiride; SKF-83566; Neostriatum (Hsu, K.-S. (690) 264)

Retrovirus; Gene transfer; Neural transplantation; Tyrosine hydroxylase; 6-Hydroxydopamine; Ex vivo gene therapy (Yoshimoto, Y. (691) 25)

Cerebral blood flow; Transient focal ischemia; Penumbra; Middle cerebral artery occlusion; Autoradiography (Takagi, K. (691) 160)

Dexamethasone; Brain; Endothelin B receptor mRNA; Endothelin mRNA; Down-regulation (Shibata, K. (692) 71)

Conditioned taste aversion; Chronic i.c.v. drug administration; Choline acetyltransferase; Nerve growth factor; Alzheimer's disease; Memory; Conditioning (Lipinski, W.J. (692) 143)

Basal forebrain; $GABA_A$ receptor α_1 subunit-immunoreactivity; Calcium-binding protein; Choline acetyltransferase; Glutamic acid decarboxylase (Härtig, W. (692) 215)

Vagotomy; Tumor necrosis factor-α; Hyperalgesia; Pain facilitation; Interleukin-1β; Interleukin-1 receptor antagonist; Formalin (Watkins, L.R. (692) 244)

Spinal cord; Descending serotonergic pathway; Serotonin; 5-HT_{1A} and NMDA receptor; 8-OH-DPAT; AP-5; Sleep; EEG power spectrum (Bjørkum, A.A. (692) 251)

Otolith; Vestibular nuclear neuron; Off-vertical axis rotation; Bidirectional response sensitivity; Spatial property; Response dynamic (Lai, C.H. (693) 39)

Phospholipase A_2; Melittin; Neurotoxicity; Neuronal culture; $[Ca^{2+}]_i$; Seizure (Clapp, L.E. (693) 101)

Intrinsic optical properties; Cell swelling; Imaging; Spectrophotometry; Brain slice (Kreisman, N.R. (693) 179)

Morphine sulfate; Morphine-3-glucuronide; Morphine-6-glucuronide; Glucose; Catecholamine; Hormone; i.c.v. (Hashiguchi, Y. (694) 13)

Medullary inspiratory neuron; Phrenic motoneuron; Cross-correlation (Duffin, J. (694) 55)

Cerebral ischemia; Ischemic tolerance; Microglia; Macrophage; Immunohistochemistry; Hippocampus (Kato, H. (694) 85)

Neuropeptide Y; Nicotine; Hypothalamus; Energy balance (Frankish, H.M. (694) 139)

Global ischemia; Antioxidant; LY 231617 (Block, F. (694) 308)

Dopamine-release; Cadmium; Striatum; *N*-Methyl-D-aspartate; Kainate; Amperometry, in vivo; Superfusion, in vivo (Olivier, V. (695) 1)

1-Methyl-4-phenylpyridinium ion; 6-Hydroxydopamine; Microdialysis; Striatum; Parkinsonism (Espino, A. (695) 151)

Behavior; Brainstem; Itch; Opioid; Scratching; Trigeminal nucleus (Thomas, D.A. (695) 267)

Atrial volume receptor; Water intake; Lateral parabrachial nucleus; Isoproterenol (Ohman, L.E. (695) 275)

Interleukin-1; Interleukin-1 receptor antagonist; Intracerebroventricular; Stress; Escape; Fear; Learned helplessness (Maier, S.F. (695) 279)

FITC-albumin; Cerebral venule; Venular pressure; Calphostin C; Sphingosine; Vascular permeability; Brain (Mayhan, W.G. (696) 106)

Red nucleus; Calcium-binding protein; Calbindin D-28k; Parvalbumin; Double-immunohistochemical method; Motor system (Hontanilla, B. (696) 121)

Excitatory amino acid; *N*-Methyl-D-aspartate antagonist; Dizocilpine maleate; MK-801; Cingulate cortex; Neurotoxicity; Neuropathology (Fix, A.S. (696) 194)

Thalamic nucleus submedius; Ventrolateral orbital cortex; Periaqueductal gray; Descending modulation; Tail flick reflex (Zhang, Y.-Q. (696) 205)

Midline thalamus; Epinephrine; Cholera toxin subunit B; Immunohistochemistry; Phenylethanolamine *N*-methyltransferase; Behavior (Otake, K. (697) 17)

Angiogenesis; Basic fibroblast growth factor; Hippocampus; Intracerebral hemorrhage; Intracerebral mass lesion; Ischemia; Protective effect (Kawakami, N. (697) 104)

Epilepsy; Seizure threshold; Iron; Hemoglobin; Amygdala (Löscher, W. (697) 197)

Inferior olivary complex; Olivocerebellar pathway; 3-Acetylpyridine; Equilibrium behavior; Learning (Jones, N. (697) 216)

Cocaine; Self-administration; Social stress; Aggression; Sex difference; Female (Haney, M. (698) 46)

Retinohypothalamic projection; Suprachiasmatic nucleus; Retinal fiber; Substance P receptor; Immunohistochemistry (Takatsuji, K. (698) 53)

Adhesion molecule; CD11b antibody; CD18 antibody; MCA occlusion (Zhang, Z.G. (698) 79)

(±)-1-(2,5-Dimethoxy-4-iodophenyl)-aminopropane; 5-HT_2 receptor; Amphetamine; Apomorphine; Dopamine; D_2 autoreceptor; Microdialysis (Ichikawa, J. (698) 204)

$GABA_A$ receptor; γ_{2L} subunit; Antipeptide serum; Ethanol; Mouse (San Juan, I. (698) 209)

NPY; 5-Hydroxytryptamine; Methysergide; Hypothalamus (Dryden, S. (699) 12)

N-Methyl-D-aspartate; γ-Aminobutyric acid; Glutamate; Cerebral cortex; Development; Evoked potential; Voltage clamp (Metherate, R. (699) 221)

Spinal cord stimulation; Periaqueductal gray matter; Microdialysis; γ-Aminobutyric acid; 5-Hydroxytryptamine; Glutamate; Substance P (Stiller, C.-O. (699) 231)

Sex difference; Pain; β-Endorphin; Formalin test; Behavior (Aloisi, A.M. (699) 242)

Nerve growth factor; Neuropathic pain; Osmotic pump; Thermal hyperalgesia; Mechanical allodynia (Ren, K. (699) 286)

Focal cerebral ischemia; Strain difference (Oliff, H.S. (699) 329)

Preprotachykinin-A mRNA; Preprosomatostatin mRNA; Substance P; Somatostatin; Inflammation; Dorsal root ganglia; Hybridization, in situ (Hanesch, U. (700) 279)

Metabotropic glutamate receptor; Phenylglycine; α-Methyl-4-carboxyphenylglycine; Morbidity; Fluid percussion; Traumatic brain injury (Gong, Q.-Z. (700) 299)

Chronoamperometry; Cocaine; Self-administration; Nucleus accumbens; SCH 23390 (Egilmez, Y. (701) 142)

Extracellular Ca^{2+} concentration; Hippocampus; Serotonin; 5-HT_{1A} receptors; EPSP; EPSC (Schmitz, D. (701) 249)

2-Deoxy-D-[^{14}C]glucose; Pain; Analgesia; Glucose; Brain (Gescuk, B.D. (701) 279)

Astrocyte; Brain; Protein kinase C (Roisin, M.-P. (701) 297)

Auditory evoked potential; Middle-latency response; Scopolamine; Acetylcholine (Campbell, K.A. (702) 110)

κ-Opioid receptor; U50488; P-type Ca^{2+} channel; G-protein; Dynorphin A; Norbinartorphimine; Purkinje cell (Kanemasa, T. (702) 207)

N-Methyl-D-aspartate receptor; Glutamate receptor; Neurohypophysis; Fura-2 (Giovannucci, D.R. (702) 246)

Spinal cord; Subarachnoid space; Capillary; Blood–brain barrier; Electron microscope (Fujimoto, K. (702) 284)

GAD; Immunocytochemistry; WGA-gold; Retrograde labeling; Dentate gyrus; CA1 (Qiu, K. (702) 287)

N-Methyl-D-aspartate receptor; AMPA receptor; Spinal cord; Nociception; Central hypersensitivity (Chapman, V. (703) 45)

Olfactory transduction; Inositol-1,4,5-triphosphate; Olfactory cilia membrane; Single channel (Honda, E. (703) 79)

Cerebral blood flow; Hyperglycemia; Mannitol; Laser-Doppler flowmetry; Indomethacin; Nitro-L-arginine methyl ester; Spreading cortical depression (Duckrow, R.B. (703) 145)

Blood-brain barrier; Brain edema; Matrix metalloproteinase; Plasminogen activator; Tumor necrosis factor-α (Rosenberg, G.A. (703) 151)

Protein kinase C; Adenylate cyclase; Second messenger; Aging; Brain; Receptor autoradiography (Araki, T. (704) 227)

Ascorbic acid; Free radical; Glutathione; Ischemia; Turtle; Temperature; Metabolism (Pérez-Pinzón, M.A. (705) 45)

Nerve graft; Schwann cell; Basal lamina; Axonal regeneration; Nerve gap repair; Peripheral nerve (Gulati, A.K. (705) 118)

Hypothalamic paraventricular nucleus; Ventrolateral medulla; Tyrosine hydroxylase; α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid; Dual immunocytochemistry; Retrograde tracing (Larsen, P.J. (705) 209)

Methylmercury; Neurotoxicity; Postnatal development; Cerebral cortex; Hippocampus (Wakabayashi, K. (705) 267)

Rat brain
Opioid; Gene expression; Prodynorphin mRNA; Chronic treatment; Nor-binaltorphimine; Naloxone; Naltrexone (Romualdi, P. (672) 42)

Chicken antibody; Voltage-gated sodium channel; SDS-PAGE; Western blot (Jarnot, M.D. (674) 159)

Antibody microprobe; Dopamine; In vivo; Neurokinin A; Release; Substantia nigra (Furmidge, L.J. (679) 241)

Neuropeptide Y-(13–36); Neuropeptide Y receptor; PYY binding; Spontaneously hypertensive rat; Nucleus tractus solitarius; Autoradiography; Blood pressure; Intracerebroventricular injection (Aguirre, J.A. (684) 159)

Phosphoinositide turnover; M_1 selective agonist; Xanomeline; Conformational analysis; Antagonist (Periyasamy, S. (693) 118)

N-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; [^{3}H]7-OH-DPAT; [^{3}H]Spiperone; D_3 dopamine receptor; Nucleus accumbens; Olfactory tubercle; Striatum (Levant, B. (698) 146)

Aging; Caudate putamen; Olfactory tubercle; Oxytocin receptor; Testosterone; Ventromedial hypothalamic nucleus (Arsenijevic, Y. (698) 275)

Ganglioside; Immunohistochemistry; Monoclonal antibody; Cerebellum; Development (Kotani, M. (700) 40)

FGF-2; FGFR1; Anatomy; Central nervous system; Immunohistochemistry; Hybridization, in situ (Gonzalez, A.M. (701) 201)

Kallikrein-kinin system; Kallikrein; Kinin antagonist; Central nervous system; Blood pressure; Brainstem (Privitera, P.J. (704) 103)

17β-Hydroxysteroid dehydrogenase; Glial cell; Estrogen; Neurosteroid (Pelletier, G. (704) 233)

Rat cerebellar Purkinje neuron
Nystatin-perforated patch-clamp; P-type Ca^{2+} channel; Diltiazem; Verapamil (Ishibashi, H. (695) 88)

Rat cerebellar receptor
Sigma receptor; Affinity chromatography; 3-PPP; Haloperidol; Photoaffinity labeling; Bovine cerebellar receptor (Schuster, D.I. (670) 14)

Rat C6 glioma
Guanylate cyclase; Ultracytochemistry; Natriuretic peptides; Dibutyryl cyclic AMP; Retinoic acid (Sorci, G. (683) 51)

Rat chromaffin cell
Exocytosis; Ca^{2+} current; Membrane capacitance measurement; Ca^{2+} channel antagonist (Kim, S.J. (675) 289)

Rate constant
β-Cyclazocine; *N*-Methyl-D-aspartate receptor; Neuroprotection; Fura-2; Single-channel recording (Sawyer, D.C. (698) 30)

Rat hippocampus
Neuronal nicotinic acetylcholine receptor; Immunocytochemistry; Up-regulation; Methyllycaconitine; Nicotine; [^{3}H]QNB (Barrantes, G.E. (672) 228)

N-Methyl-D-aspartate; Ethanol; Alcohol withdrawal; Excitotoxicity (Davidson, M. (674) 91)

Nitric oxide synthase; Cyclic GMP; 3,4-Diaminopyridine; Noradrenaline release (Lauth, D. (692) 174)

Rat mesencephalic cell culture
L-DOPA; Parkinson's disease; Dopamine neuron; Neurotoxicity; Ascorbic acid (Pardo, B. (682) 133)

Rat muscle
Nicotinic acetylcholine receptor channel; Dissociated muscle fibre; Forskolin; Cyclic AMP-dependent protein kinase (Lorenzon, P. (703) 100)

Rat nervous system
mCalpain; Localization; Myelin sheath; Myelin basic protein; Neurofilament protein; Neuron; Glial cell (Li, Z. (697) 112)

Rat neuromuscular junction
Miniature endplate current; Veratridine; Vesamicol; Cholinergic synaptic vesicle; *Torpedo* electroplaque (Pemberton, K.E. (671) 267)

Rat nucleus accumbens
Fos-protein; Additive and synergistic action; CCK/D_2 receptor interaction (Li, X.-M. (684) 225)

Rat pinealocyte
Nitric oxide; Cyclic GMP; Ca^{2+}; Phoshodiesterase; Protein kinase C (Spessert, R. (694) 207)

Rat prefrontal cortex
N-Methyl-D-aspartate receptor; Darting behavior; Polyamine; Neuromodulator; [^{3}H]MK-801; Radioligand binding (Savelli, J.E. (682) 41)

Rat retina
Pregnenolone synthesis; Neurosteroid; $GABA_A$/benzodiazepine receptor (Guarneri, P. (683) 65)

Endothelin; Endothelin ET_A receptor; Endothelin ET_B receptor; Immunoreactive endothelin-3 (De Juan, J.A. (690) 25)

Rat sciatic nerve
Nerve regeneration; Nerve degeneration; Nerve grafting; Nerve repair; Schwann cell (Danielsen, N. (681) 105)

Rat spinal cord
Opioid receptor; Dorsal rhizotomy; Receptor autoradiography; Primary afferent fiber (Stevens, C.W. (687) 53)

Rat spinal dorsal horn neuron
κ-Opioid receptor; Dynorphin; AMPA/kainate receptor; Whole-cell voltage-clamp (Kolaj, M. (671) 227)

Rat strain
Dynorphin; Enkephalin; Morphine dependence; Morphine withdrawal (Nylander, I. (683) 25)

Novel environments; Tryptophan hydroxylase; Serotonin-1A receptors; Hypothalamo-pituitary-adrenal axis; Anxiety; Locomotor activity (Chaouloff, F. (693) 169)

Rat striatum
Replication deficient recombinant adenovirus; ß-Galactosidase; Retrograde transport; Neural tracing (Kuo, H. (705) 31)

Muscarinic receptor; Receptor binding; Circling training; Plasticity; Development (Ibarra, G.R. (705) 39)

Rat visual system
Hydrogel; Schwann cell; Regeneration; Astrocyte; Immunohistochemistry (Plant, G.W. (671) 119)

RC3
Neurogranin; Neurogranin mRNA; Sleep deprivation; Sleep regulation (Neuner-Jehle, M. (685) 143)

RDL (resistance to dieldrin) subunit
GABA receptor; *Drosophila melanogaster*; Bicyclic dinitrile; Convulsant site (Hosie, A.M. (693) 257)

Reach
Field potential; Oscillation; Parietal cortex; Motor preparation; Primate (MacKay, W.A. (704) 167)

Reactive astrocyte
Growth inhibitory factor; Stab wound; Gliosis; Alzheimer's disease; Western blot; Northern blot (Hozumi, I. (688) 143)

Brain lesioning; Calcium channel; Glial fibrillary acidic protein; Verapamil hydrochloride (Klepper, S. (695) 245)

Reactive oxygen species
Free radical; Ischemia; Myelination; O2A lineage; White matter (Husain, J. (698) 86)

Rearing behavior
Stress; Corticosterone; Hypothalamic-pituitary-adrenal axis; Novel environment; Novelty; Sensitization; Context-specific sensitization; Environment-specific sensitization; Rotational behavior; Locomotor activity; Rat (Badiani, A. (673) 13)

Intracerebroventricular; Pituitary adenylate cyclase-activating polypeptide; Vasoactive intestinal polypeptide; Thyrotropin-releasing hormone; Spontaneous motor activity; Reserpine; Hypothermia (Masuo, Y. (700) 219)

Receptive field
Bandwidth; Guinea pig; Mapping; Threshold; Tuning (South, D.A. (704) 275)

Receptivity
Brain lesion; Reptile; Sexual behavior; Ventromedial hypothalamus (Kendrick, A.M. (680) 226)

Receptor
Glutamate; Synaptoneurosome; Phospholipase; Plasticity (Bernard, J. (671) 195)

Angiotensin; Subtype; Human; Brain; Losartan; Autoradiography (MacGregor, D.P. (675) 231)

Nucleus magnocellularis; Nucleus laminaris; Medial vestibular nucleus; Inhibition; Brain slice; γ-Aminobutyric acid (Hyson, R.L. (677) 117)

γ-Aminobutyric acid; Spinal cord; Chronic inflammation; Neurectomy; Pain; Complete Freund's adjuvant (CFA); Plasticity (Castro-Lopes, J.M. (679) 289)

Atrial natriuretic peptide; Olfactory bulb; Synaptosome (Haver, E. (681) 75)

Alzheimer's disease; Inositol(1,4,5)P_3; Inositol(1,3,4,5)P_4; Calcium; Phosphatidylinositol hydrolysis; Signal transduction (Garlind, A. (681) 160)

Atrial natriuretic peptide; Olfactory bulb; Olfaction; Autoradiography (Bachar, C. (682) 231)

Transcytosis; Monoclonal antibody (Skarlatos, S. (683) 164)

LIF; IL-1β; Axotomy; Substance P; Sympathetic; Regulation; Nuclease protection assay; mRNA; Schwann cell; Fibroblast (Ludlam, W.H. (685) 12)

Hippocampus; Human epilepsy; Immunocytochemistry; Vasoactive intestinal polypeptide (De Lanerolle, N.C. (686) 182)

Human brain; Subcellular distribution; Ultrastructure; Marker enzyme (Maloteaux, J.-M. (687) 155)

G-protein; Oxytocin; Vasopressin (Flanagan-Cato, L.M. (701) 75)

κ-Receptor
Opioid antagonist; Sham feeding; Sucrose intake; μ-Receptor; Orosensory mechanism; Palatability (Leventhal, L. (685) 205)

Enterostatin; Naloxone; Feeding; Galanin; U50488; Fat intake (Barton, C. (702) 55)

μ-Receptor
Opioid antagonist; Sham feeding; Sucrose intake; κ-Receptor; Orosensory mechanism; Palatability (Leventhal, L. (685) 205)

σ_1 Receptor
Hippocampus; Acetylcholine; SKF-10,047 (*N*-allylnormetazocine); Haloperidol; Amnesia; Stereoselectivity; Rat (Matsuno, K. (690) 200)

δ Receptor agonist
Opioid; μ Receptor agonist; κ Receptor agonist; Cholera toxin; Dorsal root ganglion neuron; K^+ Conductance; Neuroblastoma F11 cell; Pertussis toxin (Fan, S.-f. (696) 97)

κ Receptor agonist
Opioid; μ Receptor agonist; δ Receptor agonist; Cholera toxin; Dorsal root ganglion neuron; K^+ Conductance; Neuroblastoma F11 cell; Pertussis toxin (Fan, S.-f. (696) 97)

μ Receptor agonist
Opioid; δ Receptor agonist; κ Receptor agonist; Cholera toxin; Dorsal root ganglion neuron; K^+ Conductance; Neuroblastoma F11 cell; Pertussis toxin (Fan, S.-f. (696) 97)

Receptor, AMPA
Alcoholism; Alcohol, ethyl; Excitatory amino acid receptor; Receptor, glutamate; Receptor, kainate; Schizophrenia; Human postmortem tissue; NCAM; Tau; Western blotting; Immunoreactivity (Breese, C.R. (674) 82)

Receptor autoradiography
$AVP_{(4-9)}$; $AVP_{(4-8)}$; Fragment peptide; Cell culture; Intracellular Ca^{2+}; Immunocytochemistry; Fura-2 (Jurzak, M. (673) 349)

Hippocampus; Dopamine D_2 receptor; [^{3}H]YM-09151-2; Rat (Yokoyama, C. (681) 153)

Opioid receptor; Rat spinal cord; Dorsal rhizotomy; Primary afferent fiber (Stevens, C.W. (687) 53)

Protein kinase C; Adenylate cyclase; Second messenger; Aging; Brain; Rat (Araki, T. (704) 227)

Receptor binding
α_2-Adrenoceptor; Hypothalamus; Estradiol; Thermodynamics; Signal transduction; RX821002; Oxymetazoline (Karkanias, G.B. (674) 26)

Hippocampus; Norepinephrine release; α_2-Adrenoceptor subtype; ARC 239; BRL 44408; Microdialysis (Kiss, J.P. (674) 238)

Muscarinic receptor; Medial septum; Hippocampus; Sympathetic ingrowth; Lesion; Pirenzepine (Harrell, L.E. (676) 386)

Muscarinic receptor; Circling training; Plasticity; Development; Rat striatum (Ibarra, G.R. (705) 39)

Receptor current
Primary muscle spindle afferent; Ramp stretch response; Sinusoidal superimposition; Ia ending excitability (Schäfer, S.S. (705) 216)

Receptor for cation
Taste response; Salt; Glossopharyngeal nerve; Cation-induced response; Anion modulation; Lyotropic series; Frog (Kitada, Y. (694) 253)

Receptor, glutamate
Alcoholism; Alcohol, ethyl; Excitatory amino acid receptor; Receptor, AMPA; Receptor, kainate; Schizophrenia; Human postmortem tissue; NCAM; Tau; Western blotting; Immunoreactivity (Breese, C.R. (674) 82)

Receptor–G protein coupling
Guanine nucleotide-binding regulatory protein (G protein); 5-HT_{1A} receptor; $GABA_B$ receptor; Muscarinic receptor; GTPase activity (Odagaki, Y. (689) 129)

Receptor, kainate
Alcoholism; Alcohol, ethyl; Excitatory amino acid receptor; Receptor, glutamate; Receptor, AMPA; Schizophrenia; Human postmortem tissue; NCAM; Tau; Western blotting; Immunoreactivity (Breese, C.R. (674) 82)

Receptor occupancy
Cocaine; Sulpiride; SCH-23390; Dopamine receptor; D1-like; D2-like; *N*-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Locomotor activity; Stereotypy; Nucleus accumbens (Neisewander, J.L. (671) 201)

Receptor pharmacology
Hippocampus; Circumventricular organ; Guanine nucleotide; Brain angiotensin system; Quantitative autoradiography (De Oliveira, A.M. (705) 177)

Receptor–receptor interaction
Nicotine; Dopamine D_2 receptor; Tyrosine hydroxylase; Hybridization, in situ (Li, X.-M. (679) 157)

Recognition
Learning; Memory; Priming; Rat; Recognition; Anesthesia; Consciousness; Rhinal cortex; Single unit; Visual; Hippocampal (Zhu, X.O. (689) 101)

Learning; Memory; Recognition; Priming; Rat; Anesthesia; Consciousness; Rhinal cortex; Single unit; Visual; Hippocampal (Zhu, X.O. (689) 101)

Recombinant human glial derived neurotrophic factor
rhGDNF; Epilepsy; Seizure; Kainic acid; Hippocampus (Martin, D. (683) 172)

Recovery
Parkinsonism; Monkey; Dopamine; Motor behavior; Cognition (Schneider, J.S. (672) 112)

Cortex; Motor function; Norepinephrine; Stroke; Trauma; Rat (Goldstein, L.B. (674) 167)

Recovery, in vivo
Exogenous compound; Calibration, in vivo; Medial prefrontal cortex (Pan, W.H.T. (686) 249)

Recovery of function
Amygdala kindling; Anteromedial cortex lesion; Somatosensory asymmetry; Kindled seizure stage; Neurological model (Hernandez, T.D. (673) 208)

Traumatic brain injury; Plasticity; Barrel receptor field; Vibrissa; Multimodality; Occipital cortex; Vicariation (Dunn-Meynell, A.A. (675) 143)

Functional reorganization; Somatosensory cortex; Thrombosis; T-maze; Sensorimotor deficit (Pazos, A.J. (689) 224)

Rectification
Guinea pig; Ambiguus neuron; Afterhyperpolarization; Ca^{2+}-mediated K^+ current; Ih; Norepinephrine; Signal-to-noise ratio (Nishimura, Y. (702) 213)

Red nucleus
Cerebellar nucleus; Inferior olive; Cholera toxin β-subunit; Gold-lectin tracer; Axon collateral (Teune, T.M. (673) 313)

Calcium-binding protein; Calbindin D-28k; Parvalbumin; Double-immunohistochemical method; Motor system; Rat (Hontanilla, B. (696) 121)

Reduced haloperidol
U50,488H; Abnormal posture; σ binding site; Haloperidol; Guinea-pig (Brent, P.J. (684) 115)

Reducing agent
Growth hormone-releasing factor; Binding site; Pituitary; Gpp(NH)p; Aging (Lefrançois, L. (673) 39)

Reflex
Cochlear nucleus; Reticular formation; Conduction velocity (Frankland, P.W. (670) 97)

Regeneration
Hydrogel; Schwann cell; Rat visual system; Astrocyte; Immunohistochemistry (Plant, G.W. (671) 119)

Vasopressin; Culture; Meninges; Hypothalamus; Pituitary; Hypophysectomy (Ishikawa, K. (677) 20)

Sciatic nerve; Schwann cell; Potassium; Calcium; Calbindin (Edström, A. (693) 148)

c-*fos*; c-*jun*; Illumination; Immediate-early gene; Photoreceptor; Plastic change; Retina (Mallo, G. (693) 196)

Central nervous system; Lesion; Postcommissural fornix; Chondroitin/dermatan sulfate proteoglycan (Stichel, C.C. (704) 263)

Fish; Microglia; Tomato lectin; Visual pathway (Velasco, A. (705) 315)

Regional blood flow
Endothelin-1; BQ-123, Cyclo (-D-Trp-D-Asp-Pro-D-Val-Leu-); Regional vascular resistance; IRL 1620, N-Suc-(Glu^9,Ala^{11,15})ET-1(8-21); Systemic hemodynamics; Sprague–Dawley rat; Central nervous system (Rebello, S. (676) 141)

Regional vascular resistance
Endothelin-1; BQ-123, Cyclo (-D-Trp-D-Asp-Pro-D-Val-Leu-); IRL 1620, N-Suc-(Glu^9,Ala^{11,15})ET-1(8-21); Regional blood flow; Systemic hemodynamics; Sprague–Dawley rat; Central nervous system (Rebello, S. (676) 141)

Regulation
LIF; IL-1β; Axotomy; Receptor; Substance P; Sympathetic; Nuclease protection assay; mRNA; Schwann cell; Fibroblast (Ludlam, W.H. (685) 12)

Regulatory volume decrease
K^+ channel blocker; Cl^- channel blocker; Ouabain; Bumetanide; Stretch-activated channel blocker; Cytosolic Ca^{2+} (Lippmann, B.J. (686) 29)

Reinforcement
Accumbens; Amygdala; Cocaine; Dopamine D1; SCH 23390; Self-administration; Striatum (Caine, S.B. (692) 47)

δ-Opioid receptor; Excitatory synapse; Synaptic vesicle recycling; Presynaptic release (Svingos, A.L. (700) 25)

Reinnervation
Muscle spindle; Nerve regeneration; Ia afferent (Scott, J.J.A. (671) 325)

Hyperinnervation; Hyper-reinnervation; Motor unit; Rat; Muscle (Kuiken, T.A. (676) 113)

Olfactory nerve; Pigeon; Transection; Horseradish peroxidase; Quantitative image analysis; Olfactory bulb (Jennings, R.A. (683) 159)

Nerve repair; Lingual nerve; Chorda tympani; Tongue; Taste; Salivary gland (Smith, K.G. (691) 142)

Tendon organ; Ib afferent; Motor unit; Nerve regeneration; Transduction (Scott, J.J.A. (697) 225)

Rejection
Allograft; Brain tissue transplantation; Dopamine neuron; Active immunization; Adoptive immunization (Shinoda, M. (680) 180)

Relapse
Seizure; Remission; Cardiac arrest; Ischemia; Valproate (Iyer, V.G. (689) 159)

Release
Antibody microprobe; Dopamine; In vivo; Neurokinin A; Rat brain; Substantia nigra (Furmidge, L.J. (679) 241)

Serotonin; Serotonin$_2$ receptor; Calcium; Second messenger; Degeneration (Kramer, H.K. (680) 1)

Release of radiolabelled neurotransmitters
4-Aminopyridine; Ca^{2+}; Brain region; Synaptosome; Slice (Versteeg, D.H.G. (686) 233)

Remission
Seizure; Relapse; Cardiac arrest; Ischemia; Valproate (Iyer, V.G. (689) 159)

REM sleep
Adenosine; Electroencephalography; Power spectrum; Non-REM sleep; Sleep-homeostasis (Landolt, H.-P. (675) 67)

Auditory stimulation; Brainstem; Diencephalon; c-fos (Merchant-Nancy, H. (681) 15)

PACAP; Temperature; Sleep; Rat; EEG (Fang, J. (686) 23)

α-1 Adrenergic receptor; Amygdala; Antidepressant drug; Desipramine; Norepinephrine (Ross, R.J. (701) 129)

Renal hypertension
Arginine-vasopressin; Bed nucleus of the stria terminalis; Paraventricular nucleus (Earle, M.L. (669) 41)

Renal sympathetic nerve activity
Angiotensin II; Angiotensin II antagonist; Caudal ventrolateral medulla; Baroreflex control; Blood pressure (Sesoko, S. (671) 38)

Renin
Serotonin; Stress; Adrenalectomy; Sympathectomy; β-Antagonist (Richardson Morton, K.D. (698) 185)

Renin angiotensin system
(3-8)Angiotensin; C6 glioma; Brain; AngIV receptor (Wyse, B. (681) 41)

Somatic; Autonomic; Intermediolateral cell column; Dorsal root ganglia (Moeller, I. (701) 301)

Reoxygenation
Asphyxia; Newborn; Na^+,K^+-ATPase; Brain; Striatum (Goplerud, J.M. (696) 161)

Lucigenin; Ischemia model; Brain development; Scavenger (Schreiber, S.J. (703) 227)

Repeated ischemia
Cerebral infarction; Selective neuronal necrosis; Threshold; Transition; Gerbil (Hanyu, S. (686) 44)

Repeated perfusion
Microdialysis; Semiquantitative histology (De Lange, E.C.M. (702) 261)

Reperfusion
Cerebral ischemia; Brain pH; Brain lactate; Cardiac arrest; Brain temperature; Neutral red (LaManna, J.C. (687) 175)

Reperfusion injury
Hyperglycemia; Magnetic resonance imaging; Cerebral ischemia; Nitric oxide (Quast, M.J. (677) 204)

Replication deficient recombinant adenovirus
ß-Galactosidase; Retrograde transport; Neural tracing; Rat striatum (Kuo, H. (705) 31)

Reproduction
GnRH; Immunocytochemistry; Light; Phenotypic variation; Deer mouse (Korytko, A.I. (685) 135)

Circadian rhythm; Neuroanatomy; Hypothalamus; Immunocytochemistry; Electron microscopy; Estrogen receptors (Watson, Jr., R.E. (689) 254)

Sexual behavior; Aromatase control; Aromatase synthesis; Preoptic area; *Coturnix japonica*; Japanese quail (Foidart, A. (701) 267)

Solitary nucleus; Vagus; Cervix; Uterus; Vagina; Viscera; Nucleus of the solitary tract (Hubscher, C.H. (702) 251)

Neuropeptide; Hypophysiotropic hormone; Brain; Amphibian; Immunohistochemistry (Collin, F. (703) 111)

Reproductive organ
Viscera; Thalamus; Nociception; Pain (Berkley, K.J. (695) 92)

Reptile
Brain lesion; Receptivity; Sexual behavior; Ventromedial hypothalamus (Kendrick, A.M. (680) 226)

Reserpine
Kindling; Epilepsy; Amygdala; Piriform cortex; Perirhinal cortex; Guinea-pig; Picrotoxin (Teskey, G.C. (672) 137)

Acetylcholine; D_1-Dopamine agonist; Glutamate; Supersensitivity; Striatum; In vitro (Login, I.S. (681) 209)

Intracerebroventricular; Pituitary adenylate cyclase-activating polypeptide; Vasoactive intestinal polypeptide; Thyrotropin-releasing hormone; Spontaneous motor activity; Rearing behavior; Hypothermia (Masuo, Y. (700) 219)

Respiration
Endorphin; Methionine-enkephalin; Hypoxia; Microdialysis; Newborn; Swine; Development (Yan, S. (687) 217)

Trigeminal; Diving reflex; Cardiovascular; Glutamate; Kynurenate; Lidocaine; Nasal; Medullary dorsal horn; Diving response; Muskrat (Panneton, W.M. (691) 37)

Ventral respiratory group; Nucleus retroambigualis; Inspiratory neuron; Axonal collateral; Spinal cord; Phrenic nucleus; Brainstem (Sasaki, S.-I. (701) 108)

Respiratory control
Dorsal respiratory group; Ventrolateral nucleus tractus solitarius; Superior laryngeal nerve; NBQX (Karius, D.R. (682) 235)

Pre-sympathetic neuron; Bötzinger neuron; C1 catecholaminergic neuron; Electrophysiology; Extracellular recording; Cardiovascular control (Kanjhan, R. (699) 19)

Respiratory neuron
Breathing control; Fastigial nucleus; Vermis; Phrenic neurogram; Electrical stimulation; Kainic acid (Xu, F. (705) 53)

Respiratory quotient
Nycthemeral modulation; Lipolysis; Feeding behavior; Energy expenditure (Ruffin, M.-P. (700) 121)

Respiratory reflex
c-Fos protein; Immunohistochemistry; Sneeze; Trigeminal nerve; Cat (Wallois, F. (687) 143)

Response dynamic
Otolith; Vestibular nuclear neuron; Off-vertical axis rotation; Bidirectional response sensitivity; Spatial property; Rat (Lai, C.H. (693) 39)

Response to a ramp stretch
Primary muscle spindle afferent; Initial burst; 'Tuning' properties of the receptor potential (Schäfer, S.S. (686) 61)

Restraint
Microdialysis; Noradrenaline; Paraventricular nucleus; Tail-pinch; Desensitization; Stress; Adaptation (Shibasaki, T. (670) 169)

Stress; $GABA_A$ receptor; Prefrontal cortex; SR 95531 (Gruen, R.J. (684) 112)

Restraint-water immersion stress
Heat shock cognate protein 70; Heat shock protein; Cerebral cortex; Stomach; Rat; mRNA; Northern blotting (Fukudo, S. (675) 98)

Retention
Amygdala; Basolateral complex; Escape training; Inhibitory avoidance; Learning; Memory (Parent, M.B. (676) 235)

Reticular formation
Cochlear nucleus; Conduction velocity; Reflex (Frankland, P.W. (670) 97)

Fear; Cyclic AMP; Startle; Amygdala (De Lima, T.C.M. (700) 59)

Audiogenic seizure; Seizure network; Startle; Habituation; Genetically epilepsy-prone rat (Faingold, C.L. (704) 218)

Reticular thalamic nucleus
Thalamus; Thalamic commissural projection; Parafascicular thalamic nucleus; Intralaminar thalamic nucleus; Retrograde cell labeling; Multi-unit anterograde labeling (Hazrati, L.-N. (679) 123)

Reticulospinal neurone
Trigeminal input; Excitatory amino acid; Glycine; Locomotion; Lamprey (Viana Di Prisco, G. (695) 76)

Retina
Rat; Diet; Protein; Brain; Hypothalamus; Tyrosine; Dopamine; Catecholamine; Appetite (Fernstrom, M.H. (672) 97)

Rhythm; Cell proliferation; Teleost; Circadian (Chiu, J.F. (673) 119)

Ganglion cell; Visual system; *Spermophilus tridecemlineatus*; Collateral (Lugo, N. (673) 161)

Chelerythrine; Kinase inhibitor; Taurine; Protein phosphorylation (Lombardini, J.B. (673) 194)

Ganglion cell; Ventral lateral geniculate; Posterior lateral nucleus; Retrograde double-labeling; Ipsilateral; Fluorescent tracer; Rat (Farid Ahmed, A.K.M. (674) 275)

Dopamine release; Acetylcholine release; ω-Conotoxin GVIA; ω-Conotoxin MVIIC; ω-Agatoxin IVA (Tamura, N. (676) 363)

Tryptophan hydroxylase; Circadian; Melatonin; Serotonin; Light; Dopamine; *Xenopus* (Green, C.B. (677) 283)

γ-Aminobutyric acid; Müller cell; Ischaemia; Immunocytochemistry (Barnett, N.L. (677) 337)

Glaucoma; Neurofilament; Calcium-binding protein (Vickers, J.C. (680) 23)

Nitric oxide synthase; NADPHd; Vasculature; Co-localisation; Human; Rat (Roufail, E. (684) 36)

Insulin-like growth factor-I; *N*-Methyl-D-aspartate receptor; Glia; Proliferation (Ikeda, T. (686) 87)

Nitric oxide synthase; NADPH-diaphorase; Knock-out mice; Electron microscopy; BSPT-formazan; Membrane (Darius, S. (690) 231)

c-*fos*; c-*jun*; Illumination; Immediate-early gene; Photoreceptor; Plastic change; Regeneration (Mallo, G. (693) 196)

Hydroxyindole-*O*-methyltransferase; Melatonin; Pineal; Y79 retinoblastoma; Tissue-specific (Bernard, M. (696) 37)

Aging; Müller cell; Photoreceptor cell; Fischer 344 rat (DiLoreto Jr., D.A. (698) 1)

Inward rectifier; Potassium current; Horizontal cell; Voltage-clamp; Sodium dependency (Pfeiffer-Linn, C.L. (701) 81)

Neurotrophin receptor; Development; Ganglion cell layer; Inner plexiform layer; Inner nuclear layer; Hybridization, in situ (Ugolini, G. (704) 121)

Retinal degenerate
Circadian; Cone; Mouse; Photoreceptor; Retinaldehyde; Rod; Vitamin A (Provencio, I. (694) 183)

Retinal degeneration
Mutant; Hippocampus; Neuron loss; Genetics (Wimer, R.E. (701) 293)

Retinaldehyde
Circadian; Cone; Mouse; Photoreceptor; Retinal degenerate; Rod; Vitamin A (Provencio, I. (694) 183)

Retinal development
Müller glia; Pigment epithelium; Cell proliferation assay; Proliferative vitreoretinopathy; Rat (Jaynes, C.D. (678) 55)

Retinal fiber
Retinohypothalamic projection; Suprachiasmatic nucleus; Substance P receptor; Immunohistochemistry; Rat (Takatsuji, K. (698) 53)

Retinal ganglion cell
NBQX; CNQX; *N*-Methyl-D-aspartate and non-NMDA receptor (Yu, W. (692) 190)

Müller cell; Amacrine cell; Blood vessel; Nitric oxide synthase (Huxlin, K.R. (692) 195)

Nitric oxide; Glutamate; Development; Chondroitin sulfate proteoglycan (Nichol, K.A. (697) 1)

Axonal bifurcation; Lateral geniculate nucleus; Retrograde fluorescent tracer; Double-labeling (Dong, K. (703) 231)

Uni- and bilateral projection; Double labeling; Fluorescent tracer; Superior colliculus; Ocular enucleation (Farid Ahmed, A.K.M. (704) 307)

Retinal pigment epithelium
Development; Transdifferentiation; Growth factor; bFGF; Tissue culture; Neural retina (Zhao, S. (677) 300)

Nitric oxide; c-*fos*; Cyclic AMP response element binding protein; Phosphorylation (Ohki, K. (696) 140)

Retinal spreading depression
Nitric oxide; Cyclic GMP; Migraine (Ulmer, H.J. (691) 239)

Retinohypothalamic projection
Suprachiasmatic nucleus; Retinal fiber; Substance P receptor; Immunohistochemistry; Rat (Takatsuji, K. (698) 53)

Retinoic acid
Guanylate cyclase; Ultracytochemistry; Natriuretic peptides; Rat C6 glioma; Dibutyryl cyclic AMP (Sorci, G. (683) 51)

Retinotectal projection
Corticotectal projection; Striate cortex; Extrastriate cortex; Visual field representation; Horseradish peroxidase (Amer-Ferrer, G. (695) 283)

Retrieval
Amygdala; Lateralization; Lidocaine; Inhibitory avoidance; Learning; Memory (Coleman-Mesches, K. (670) 75)

Amygdala; γ-Aminobutyric acid; Lateralization; Inhibitory avoidance; Learning; Memory (Coleman-Mesches, K. (676) 183)

Retrochiasmatic area
Suprachiasmatic nucleus; Intergeniculate leaflet; Subparaventricular zone; Paraventricular hypothalamic nucleus; Paraventricular thalamic nucleus; γ-Aminobutyric acid; Benzodiazepine receptor (Gao, B. (700) 142)

Retrograde axonal transport
Albumin; Transferrin; Transferrin receptor; Lysosome; Motor neuron; Ultrastructure; Toxic metal; Amyotrophic lateral sclerosis; Rat (Moos, T. (672) 14)

Neurotrophic; Phosphatidylinositol 3-kinase; PI 3-kinase; ERK; MEK; MEK kinase; GAP-43; Signal transduction (Johanson, S.O. (690) 55)

G-protein; Dorsal root ganglion; Nuclear translocation; Peptide antibody (Hendry, I.A. (700) 157)

Retrograde cell labeling
Thalamus; Reticular thalamic nucleus; Thalamic commissural projection; Parafascicular thalamic nucleus; Intralaminar thalamic nucleus; Multi-unit anterograde labeling (Hazrati, L.-N. (679) 123)

Retrograde double-labeling
Retina; Ganglion cell; Ventral lateral geniculate; Posterior lateral nucleus; Ipsilateral; Fluorescent tracer; Rat (Farid Ahmed, A.K.M. (674) 275)

Retrograde fluorescent tracer
Axonal bifurcation; Retinal ganglion cell; Lateral geniculate nucleus; Double-labeling (Dong, K. (703) 231)

Retrograde labeling
GAD; Immunocytochemistry; WGA-gold; Dentate gyrus; CA1; Rat (Qiu, K. (702) 287)

Retrograde labelling
Calretinin; Tract tracing; Immunohistochemistry; Calcium binding protein; Nigro-striatal pathway (Krzywkowski, P. (705) 273)

Retrograde neuronal tracing
Calcium binding protein; Neuropeptide Y; Immunohistochemistry; Autonomic nervous system; Sympathetic neuron; Chemical coding (Grkovic, I. (684) 127)

Retrograde tracing
L-Glutamate; γ-Aminobutyric acid; Spinal cord; Immunogold reaction; Spinomedullary neuron (Maxwell, D.J. (676) 103)

Gephyrin; Spinal cord; Immunogold reaction; Postsynaptic dorsal column pathway (Maxwell, D.J. (690) 127)

Corpus callosum; Interhemispheric; Immunocytochemistry; Cholera toxin B; Double labeling (Gonchar, Y.A. (697) 27)

Hypothalamic paraventricular nucleus; Ventrolateral medulla; Tyrosine hydroxylase; α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid; Rat; Dual immunocytochemistry (Larsen, P.J. (705) 209)

Retrograde tract tracing
Substance P; Synapse; Nucleus tractus solitarius; Paraventricular hypothalamic nucleus; WGA-HRP-colloidal gold; Immunohistochemistry; Electron microscopy (Kawano, H. (689) 136)

Retrograde transport
Parkinson's disease; Adrenal medullary graft; Sprouting; 6-Hydroxydopamine; Dopamine uptake; Striatum (Hansen, J.T. (670) 197)

Volkensin; Ricin; Cerebellum; Inferior olive; Pontine nuclei; Neuronal degeneration (Cevolani, D. (689) 163)

Small cell cap; Granule cells; Auditory brain stem; Biotinylated dextran amine; Olivocochlear fibers (Zhao, H.B. (700) 295)

Replication deficient recombinant adenovirus; ß-Galactosidase; Neural tracing; Rat striatum (Kuo, H. (705) 31)

Retrovirus
Gene transfer; Neural transplantation; Rat; Tyrosine hydroxylase; 6-Hydroxydopamine; Ex vivo gene therapy (Yoshimoto, Y. (691) 25)

Retzius neurone
Medicinal leech; Glial cell; Intracellular Ca^{2+}; Extracellular K^+; Ca^{2+} channel; Menthol (Hochstrate, P. (696) 231)

Reverse-transcribed polymerase chain reaction
$GABA_A$ receptor; $GABA_C$ receptor; Pituitary (Boué-Grabot, E. (704) 125)

Reward
Cocaine; Septum; Hippocampus; Place-preference conditioning (Gong, W. (683) 221)

Self-stimulation; Corticosterone; Food restriction; Sensitization; Opioid (Abrahamsen, G.C. (695) 186)

Rhesus macaque
Estrogen receptor; Gonadotropin-releasing hormone; Preoptic area; Hypothalamus (Sullivan, K.A. (685) 198)

Rhesus monkey
Animal model; Brain; Neuron; Stereology (Pakkenberg, H. (693) 201)

Rhinal cortex
Learning; Memory; Recognition; Priming; Rat; Recognition; Anesthesia; Consciousness; Single unit; Visual; Hippocampal (Zhu, X.O. (689) 101)

Rhythm
Retina; Cell proliferation; Teleost; Circadian (Chiu, J.F. (673) 119)

Activity; c-*fos*; Hamster; Immunocytochemistry; Intergeniculate leaflet; Neuropeptide Y; Nonphotic; Suprachiasmatic nucleus (Janik, D. (698) 137)

α Rhythm
Magneto-encephalography; Brain spontaneous activity; Evoked rhythm; Brain rhythm functional correlate; Brain frequency responsiveness (Narici, L. (703) 31)

Rhythmic
Spontaneous activity; Development; Cochlea; Chicken; Hearing; Basilar papilla; Auditory nerve (Lippe, W.R. (703) 205)

Ricin
Volkensin; Cerebellum; Inferior olive; Pontine nuclei; Retrograde transport; Neuronal degeneration (Cevolani, D. (689) 163)

OX7-saporin; Volkensin; Synapses; Ultrastructure; Basal ganglia (Roberts, R.C. (701) 227)

RIII reflex
Nociception; Hyperreflexia; Opiate; Electromyography; Morphine (Yeomans, D.C. (670) 297)

Rilmenidine
α_{2A}-Adrenergic receptor; Imidazoline I_1- and I_2-receptor(s); Clonidine; Idazoxan; Autoradiography (King, P.R. (675) 264)

Rimmed vacuole
Alzheimer's disease; Amyloid β protein; Amyloid precursor protein; Chloroquine myopathy (Tsuzuki, K. (699) 260)

Ring dove
2-Deoxyglucose; Autoradiography; Prolactin; Incubation (Lea, R.W. (700) 129)

[^{14}C]2-Deoxyglucose; Autoradiography; Incubation; Nucleus preopticus medialis; Nucleus tuberis; Nucleus ovoidalis; Paleostriatum primitivum (Georgiou, G.C. (700) 137)

Risperidone
Haloperidol; Chlorpromazine; Raclopride; Thioridazine; Clozapine; Ritanserin; Fos; Forebrain; Immunohistochemistry (Wan, W. (688) 95)

Ritanserin
Haloperidol; Chlorpromazine; Raclopride; Risperidone; Thioridazine; Clozapine; Fos; Forebrain; Immunohistochemistry (Wan, W. (688) 95)

RMP-7
Bradykinin analog; Blood–brain barrier; Tight junction; Permeability; Lanthanum; Hypotension (Sanovich, E. (705) 125)

RNA
Antinociception; Solution hybridization; Central nervous system locus; δ-Opioid receptor (Jenab, S. (691) 69)

mRNA
Glial fibrillary acidic protein; Spreading depression; Potassium; MK-801 (Bonthius, D.J. (674) 314)

Heat shock cognate protein 70; Heat shock protein; Restraint-water immersion stress; Cerebral cortex; Stomach; Rat; Northern blotting (Fukudo, S. (675) 98)

Chronic hypoxia; Brain regulation; Development; Glucose transporter; Glyceraldehyde 3-phosphate dehydrogenase (Xia, Y. (675) 224)

Serotonin receptor; Human brain; Hybridization histochemistry, in situ; Serotonin (Burnet, P.W.J. (676) 157)

Vasopressin; Dehydration; Salt-loading; Sex difference (Dai, W.-J. (676) 178)

Glucocorticoid; Hypothalamo–pituitary–adrenocortical axis; Hybridization, in situ; Gene regulation (Herman, J.P. (677) 243)

LIF; IL-1β; Axotomy; Receptor; Substance P; Sympathetic; Regulation; Nuclease protection assay; Schwann cell; Fibroblast (Ludlam, W.H. (685) 12)

Dehydration; CRH; Corticosterone; Paraventricular nucleus; Supraoptic nucleus; Adrenal gland (Watts, A.G. (687) 63)

Serotonin transporter; Midbrain raphe; Serotonin depletion; Imipramine (Linnet, K. (697) 251)

Heat shock protein; Hybridization, in situ; Immunohistochemistry; (±)-2-Amino-3-hydroxy-5-methyl-4-isoxazoleacetic acid; MK-801 (Planas, A.M. (700) 289)

PKC; Kindling; Epilepsy; Hybridization, in situ; Gene expression; Plasticity (Kamphuis, W. (702) 94)

NR-1; c-*jun*; Nerve crush; Glutamate receptor; Axotomy; Development (Hay, C. (704) 145)

mRNA expression
Neurotrophin; Immunolesion; Cholinergic basal forebrain neuron (Yu, J. (705) 247)

mRNA stability
Posttranscriptional control; Glutamate; *N*-Methyl-D-aspartate; Hippocampal neuron (Jakoi, E.R. (693) 124)

Ro 15-1788
Anxiety; Benzodiazepine; Central amygdala; Basolateral amygdala; Midazolam (Pesold, C. (671) 213)

Ro 15-4513
Purkinje cell; Microiontophoresis; γ-Aminobutyric acid (GABA); Alcohol; Imidazobenzodiazepine (Lee, R.-S. (687) 1)

$GABA_A$ receptor; Benzodiazepine; Hippocampus; Cerebellum; Medulla; Spinal cord (Mehta, A.K. (704) 289)

Rod
Circadian; Cone; Mouse; Photoreceptor; Retinal degenerate; Retinaldehyde; Vitamin A (Provencio, I. (694) 183)

Rodent
Prenatal stress; Medial amygdala; MePV; MePD; Sexually dimorphic nucleus; Sexual differentiation; Ejaculatory behavior; Morphometry (Kerchner, M. (672) 251)

Apneusis; Control of respiration; *N*-Methyl-D-aspartate receptor; Dizocilpine; Anesthetics; Mice (Cassus-Soulanis, S. (679) 25)

Rostral pole
Shell; Core; D_2 autoreceptor; Neuronal uptake; Fast cyclic voltammetry; Dopamine (Wieczorek, W. (699) 171)

Rostral ventrolateral medulla
Acetylcholine; Physostigmine; Carbachol; Pressor response; Acetylcholine release (Kubo, T. (686) 1)

Imidazoline receptor; Nucleus tractus solitarius; Clonidine; Barodenervation; Hypotension; Autoradiography (El-Mas, M.M. (691) 195)

Morphine; Withdrawal syndrome; Voltammetry, in vivo; Excitatory amino acid; Naloxone; Opioid (Wang, L. (697) 130)

Rotation
Angiotensin II; Dopamine; Losartan; Striatum; Substantia nigra; Haloperidol (Jenkins, T.A. (691) 213)

Rotational behavior
Stress; Corticosterone; Hypothalamic-pituitary-adrenal axis; Novel environment; Novelty; Sensitization; Context-specific sensitization; Environment-specific sensitization; Locomotor activity; Rearing behavior; Rat (Badiani, A. (673) 13)

Conditioning; Context-specific sensitization; Environment-specific sensitization; Novelty; Stress; Striatum; Dopamine; Rat (Badiani, A. (674) 291)

Striatum; 3-Nitropropionic acid; Quinolinic acid; Huntington's disease; Apomorphine; Motor behavior asymmetry (Borlongan, C.V. (676) 231)

Dopamine D1 receptor; Dopamine D2 receptor; Dizocilpine; Glutamate (Boldry, R.C. (692) 259)

RSA
Optical Imaging; State; EEG; Cell swelling; Theta; Cat (Rector, D.M. (696) 151)

RTI-55
Dopamine transporter; Cocaine receptor; WIN 35,428; Quantitative autoradiography; Dopamine metabolism; Dopamine uptake (Coulter, C.L. (690) 217)

RU486
Corticosterone; Kainic acid; Hippocampus; Epileptic activity; GR-receptor (Talmi, M. (704) 97)

RU 28362
Glucocorticoid; Corticosterone; Luteinizing hormone (Briski, K.P. (670) 66)

RU38486
Corticosterone; Interleukin-1β; Adrenalectomy; Social behaviour; Body temperature; Mouse (Goujon, E. (702) 173)

Rubidium
Copper; Manganese; Molybdenum; Zinc; Long-Evans Cinnamon rat; Brain; Wilson disease (Saito, T. (695) 240)

RWJ 37796
Dopamine; Neuroleptic; Striatum; Extrapyramidal symptom; Supersensitivity (Shapiro, L.A. (677) 250)

RX821002
α_2-Adrenoceptor; Hypothalamus; Estradiol; Thermodynamics; Signal transduction; Receptor binding; Oxymetazoline (Karkanias, G.B. (674) 26)

Ryanodine receptor
Sphingosylphosphorylcholine; Calcium release; Microsome; IP_3 receptor (Dettbarn, C. (669) 79)

S

S100
Protein kinase C; PKC; Isoenzyme; IMHV; Imprinting; Double-labeling; Neuron-specific enolase; Glial cell (Van der Zee, E.A. (676) 41)

Calcium; Hippocampus; Neurotrophic; Glucose; Mitochondria (Barger, S.W. (677) 167)

Sag
Motoneuron; Passive electrical property; Q-current (Engelhardt, J.K. (675) 241)

Saliva
Rat; Chorda tympani; Licking; Taste; Mechanical stimulation; Conduction velocity (Matsuo, R. (689) 289)

Salivary gland
Reinnervation; Nerve repair; Lingual nerve; Chorda tympani; Tongue; Taste (Smith, K.G. (691) 142)

Salt
Taste response; Glossopharyngeal nerve; Cation-induced response; Receptor for cation; Anion modulation; Lyotropic series; Frog (Kitada, Y. (694) 253)

Salt loading
Calcium-binding protein; Calcium buffer; Calretinin; Hypothalamic paraventricular nucleus; Supraoptic nucleus; Rat (Arai, R. (673) 339)

Salt-loading
Vasopressin; mRNA; Dehydration; Sex difference (Dai, W.-J. (676) 178)

192-Saporin
Immunotoxin; Alzheimer's disease; Cholinergic basal forebrain; Spatial memory; Animal model (Walsh, T.J. (702) 233)

Satiety
Insulin; Microdialysis; Paraventricular nucleus; Ventromedial hypothalamus; Feeding behavior (Orosco, M. (671) 149)

Satiety substance
c-fos; Tyrosine hydroxylase; Immunohistochemistry; Hypothalamus; Rat (Hisano, S. (676) 409)

Saturable transport
Behavior; Therapeutics; Pharmacokinetics; Mouse (Banks, W.A. (695) 59)

S-100β
Brainstem; Cerebellum; Immunocytochemistry; Trypsinization (Yang, Q. (696) 49)

SBFI microfluorometry
Ciliary ganglion cell; Fura-2 microfluorometry; Nicotine; Muscarine; Ca^{2+} channel blocker (Sorimachi, M. (669) 26)

σ binding site
U50,488H; Abnormal posture; Haloperidol; Reduced haloperidol; Guinea-pig (Brent, P.J. (684) 115)

S100β protein
Transgenic mouse; β-Amyloid protein (Yao, J. (702) 32)

S100β, synaptophysin
Hippocampus; Temporal cortex; Temporal pole; Parietal cortex; Hypothalamus; Morphometry; Immunocytochemistry; Serotonin (Azmitia, E.C. (677) 181)

Scanning electron microscope
Neovascularization; Neural transplantation; Cortical lesion cavity (Miyoshi, Y. (681) 131)

Scavenger
Lucigenin; Ischemia model; Reoxygenation; Brain development (Schreiber, S.J. (703) 227)

SCG
Decentralization; GAP-43; p38 (synaptophysin); Immunohistochemistry; Confocal laser scanning microscopy (Hou, X.-E. (679) 49)

SCH-23390
Cocaine; Sulpiride; Dopamine receptor; D1-like; D2-like; *N*-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Receptor occupancy; Locomotor activity; Stereotypy; Nucleus accumbens (Neisewander, J.L. (671) 201)

Cocaine; Conditioned place preference; (−)-Sulpiride; MK-801; DNQX; Rat (Cervo, L. (673) 242)

Conditioned place preference; Morphine; Zolantidine; L-Histidine; α-Fluoromethylhistidine (α-FMH); DA turnover (Suzuki, T. (675) 195)

Accumbens; Amygdala; Cocaine; Dopamine D1; Reinforcement; Self-administration; Striatum (Caine, S.B. (692) 47)

Prolactin; Dopamine D_1 receptor; Dopamine; Ventromedial hypothalamus; Sheep (Curlewis, J.D. (697) 48)

Dopamine; Blood pressure; Ventral tegmental area; Substantia nigra; Raclopride; Vasopressin; DiMe-C7; Substance P (Cornish, J.L. (701) 28)

Chronoamperometry; Cocaine; Self-administration; Rat; Nucleus accumbens (Egilmez, Y. (701) 142)

Schaffer collateral
Glial cell; Depolarization; K^+ concentration; Population spike; Synaptic transmission (Leung, L.S. (697) 262)

CA1 stratum radiatum; Hippocampus; Estrogen; Light cycle; Sex difference (Warren, S.G. (703) 26)

Schizophrenia
Alcoholism; Alcohol, ethyl; Excitatory amino acid receptor; Receptor, glutamate; Receptor, AMPA; Receptor, kainate; Human postmortem tissue; NCAM; Tau; Western blotting; Immunoreactivity (Breese, C.R. (674) 82)

D_4-dopamine receptor; Guanine nucleotide; Gpp(NH)p; Human brain; [^{3}H]Raclopride; [^{3}H]YM-09151–2; Major depression (Sumiyoshi, T. (681) 109)

D-Serine; Post-mortem human central nervous system; Prefrontal cortex; Superior parietal cortex; Cerebellum; Spinal cord; Dementia of the Alzheimer type (Kumashiro, S. (681) 117)

d-Amphetamine; Dopamine; 6-Hydroxydopamine; Locomotor activity; Microdialysis; Neostriatum; Stress (King, D. (685) 117)

N-Methyl-D-aspartate antagonist; Epilepsy; Sexual maturation; Development (Sircar, R. (694) 318)

Schwann cell
Hydrogel; Regeneration; Rat visual system; Astrocyte; Immunohistochemistry (Plant, G.W. (671) 119)

Nerve regeneration; Macrophage; Degeneration; Nerve graft; Myelin; Microcirculation (Dahlin, L.B. (679) 274)

Rat sciatic nerve; Nerve regeneration; Nerve degeneration; Nerve grafting; Nerve repair (Danielsen, N. (681) 105)

LIF; IL-1β; Axotomy; Receptor; Substance P; Sympathetic; Regulation; Nuclease protection assay; mRNA; Fibroblast (Ludlam, W.H. (685) 12)

Phenotype; PKH26 (Devon, R. (688) 223)

Calcium dependent ATPase; Electron microscopic histochemistry; Sciatic nerve; Peripheral nerve; Axon; Plasma membrane (Mizutani, Y. (693) 95)

Regeneration; Sciatic nerve; Potassium; Calcium; Calbindin (Edström, A. (693) 148)

Nerve graft; Basal lamina; Axonal regeneration; Nerve gap repair; Peripheral nerve; Rat (Gulati, A.K. (705) 118)

Sciatic nerve
Conditioned medium; Neurotrophic factor; PC12 cell; Chick ganglia; Dorsal root ganglion; Ciliary ganglion (Villegas, G.M. (685) 77)

Calcium dependent ATPase; Electron microscopic histochemistry; Peripheral nerve; Axon; Schwann cell; Plasma membrane (Mizutani, Y. (693) 95)

Regeneration; Schwann cell; Potassium; Calcium; Calbindin (Edström, A. (693) 148)

Aging; Nerve regeneration; Sudomotor axon; Motor axon; Nerve repair (Verdú, E. (696) 76)

F344 rat; Fast axoplasmic transport; Aging (Jacob, J.M. (699) 154)

Axotomy; Spinal motoneuron; Neurotrophin; Cell death (Schmalbruch, H. (700) 254)

Scopolamine
Glucose; Cholinergic septo-hippocampal system; High-affinity choline uptake; Memory; Alzheimer's disease (Micheau, J. (685) 99)

Auditory evoked potential; Middle-latency response; Acetylcholine; Rat (Campbell, K.A. (702) 110)

Scrapie
γ-Aminobutyric acid; Hamster; Hippocampus; Inferior colliculus; Prion; Immunohistochemistry (Lu, P. (681) 235)

Scratching
Behavior; Brainstem; Itch; Opioid; Rat; Trigeminal nucleus (Thomas, D.A. (695) 267)

SDS-PAGE
Chicken antibody; Rat brain; Voltage-gated sodium channel; Western blot (Jarnot, M.D. (674) 159)

Season
Melatonin; 5-Methoxytryptophol; Pineal organ; Human; Photoperiod; Circadian rhythm (Hofman, M.A. (671) 254)

Secondary injury
Spinal cord injury; Methylprednisolone; Lesion site; Inflammatory reaction; Macrophage invation; Central nervous system (Bartholdi, D. (672) 177)

Second messenger
Pyramidal neuron; Serine/threonine protein phosphatase; Immunolocalisation; Dendrite; Spine (Lowenstein, P.R. (676) 80)

Serotonin; Serotonin$_2$ receptor; Calcium; Release; Degeneration (Kramer, H.K. (680) 1)

Protein kinase C; Adenylate cyclase; Aging; Brain; Receptor autoradiography; Rat (Araki, T. (704) 227)

Second messenger system
Cyclic ADP-ribose; Central nervous system; Immunohistochemistry; Western blotting; Neuron (Mizuguchi, M. (697) 235)

Angiotensin receptor; Median eminence; Quantitative autoradiography (Seltzer, A.M. (705) 24)

Secretion
Adrenergic receptor; Norepinephrine; Isoproterenol; Adenosine; Astrocyte; Cyclic AMP transport; Cerebral cortex; Cyclic AMP; Phosphodiesterase; Astrocyte; Transport (Rosenberg, P.A. (692) 227)

Seizure
α_1-Adrenergic receptor; α_{1A} and α_{1B} subtype; Noradrenaline; Cerebral cortex; Autoradiography; Kindling; Epilepsy (Gundlach, A.L. (672) 214)

Glutamate; Hippocampus; Kainic acid; Microdialysis; Nitric oxide; Rat (Rigaud-Monnet, A.-S. (673) 297)

Epilepsy; Hippocampus; Tetanus toxin; Electroencephalography; Slice, in vitro (Lee, C.L. (677) 97)

Nitric oxide; Pilocarpine; Kainic acid; *N*-Methyl-D-aspartate receptor; Nitro-L-arginine (Maggio, R. (679) 184)

CREB; c-fos; c-*jun*; Krox-24; Kainic acid; Hippocampus (Blendy, J.A. (681) 8)

Kindling; Epilepsy; Brainstem; Amygdaloid body; Rat (Chiba, S. (682) 50)

Recombinant human glial derived neurotrophic factor; rhGDNF; Epilepsy; Kainic acid; Hippocampus (Martin, D. (683) 172)

Lithium; Inositol; Cholinergic; Serotonergic; Phosphoinositide (Williams, M.B. (685) 169)

Remission; Relapse; Cardiac arrest; Ischemia; Valproate (Iyer, V.G. (689) 159)

Hypoxia/ischemia; Corticosterone; Degeneration; Hypothalamo-pituitary-adrenal axis (Krugers, H.J. (690) 41)

Brain slice; Nipecotic acid; Epilepsy; γ-Aminobutyric acid; Anticonvulsant (Honmou, O. (692) 273)

Phospholipase A_2; Melittin; Neurotoxicity; Neuronal culture; $[Ca^{2+}]_i$; Rat (Clapp, L.E. (693) 101)

Olfactory bulb; Kainic acid; Propagation; Cerebral glucose utilization; Electroencephalogram (Araki, T. (693) 207)

Osmotic effect; Cell swelling; Extracellular space; Hyponatremia; Spreading depression; Epilepsy; Neuron damage (Huang, R. (695) 195)

Synaptic potential; Osmotic pressure; Cell swelling; Sodium deficiency; Excitatory postsynaptic potential; Spreading depression (Chebabo, S.R. (695) 203)

Hyperoxia; Hyperbaric oxygen; Carbon dioxide; Adenosine receptor; Methylxanthine (Bitterman, N. (696) 250)

Bicuculline methiodide; Extracellular field potential; γ-Aminobutyric acid; Magnesium; Potassium (Watson, P.L. (700) 227)

Inferior colliculus; Cortex; 2-Deoxyglucose; c-Fos (McCown, T.J. (701) 117)

Glutamate; Glycine; 5,7-Dichlorokynurenic acid; (+)HA-966; ACPC; D-CPP; AP7; Dizocilpine; Strychnine (Peterson, S.L. (702) 101)

Seizure inhibition
Magnetic stimulation; Depression; Electroconvulsive shock; Apomorphine-induced stereotypy; Swim test (Fleischmann, A. (699) 130)

Seizure-like activity
Slow depolarizing after-potential; Epileptiform activity; Kynurenic acid; Cocaine; Tetrodotoxin; Veratridine (Tian, L.-M. (680) 164)

Seizure network
Audiogenic seizure; Reticular formation; Startle; Habituation; Genetically epilepsy-prone rat (Faingold, C.L. (704) 218)

Seizure-related gene
Pentylenetetrazol; 3′ Untranslated region; Calcium current; *Xenopus* oocyte (Kajiwara, K. (671) 170)

Seizures
Presynaptic glutamate receptor; Glutamate release; Kindling; Epileptogenesis; (1S,3S)-ACPD; D-CPPene; D-CPP (Attwell, P.J.E. (698) 155)

Seizure threshold
Epilepsy; Rat; Iron; Hemoglobin; Amygdala (Löscher, W. (697) 197)

Selective AMPA receptor antagonist
NBQX; Field potential; Long-term potentiation; In vivo (Sato, K. (683) 279)

Selective attention
Nucleus basalis magnocellularis lesion; Chromaffin cell transplant (Welner, S.A. (671) 309)

Selective brain cooling
Systemic brain cooling; Posture; Vasoconstrictor sympathetic outflow; Ultradian wake–sleep cycle (Azzaroni, A. (671) 78)

Selective breeding
Hypothalamic paraventricular nucleus; Corticotropin-releasing hormone; Fos-immunoreactivity; Pharmacogenetics; Stress; Wistar rat (Mulders, W.H.A.M. (689) 61)

Selective neuronal necrosis
Cerebral infarction; Threshold; Transition; Repeated ischemia; Gerbil (Hanyu, S. (686) 44)

Selective vulnerability
Hippocampus; Global cerebral ischemia; Norepinephrine release; Voltage-dependent calcium channel; Nitrendipine; *N*-Methyl-D-aspartate receptor-channel complex (Hurt, K.J. (673) 226)

Self-administration
Accumbens; Amygdala; Cocaine; Dopamine D1; Reinforcement; SCH 23390; Striatum (Caine, S.B. (692) 47)

Cocaine; Social stress; Aggression; Sex difference; Female; Rat (Haney, M. (698) 46)

Chronoamperometry; Cocaine; Rat; Nucleus accumbens; SCH 23390 (Egilmez, Y. (701) 142)

Self-injurious behavior
6-Hydroxydopamine; D1 Receptor; D2 Receptor; Dopamine; GBR-12909; Striatum (Sivam, S.P. (690) 259)

Self-stimulation
Lateral hypothalamus; Parietal; Temporal; Brain metabolism (Harley, C.W. (685) 217)

Brain stimulation reward; Aversion; Analgesia; Ventral tegmental area; Nucleus reticularis gigantocellularis (Anderson, R. (688) 15)

Corticosterone; Food restriction; Sensitization; Reward; Opioid (Abrahamsen, G.C. (695) 186)

Semiquantitative histology
Microdialysis; Repeated perfusion (De Lange, E.C.M. (702) 261)

Senescence-accelerated mouse
Animal model; Dietary oil; α-Linolenic acid; Linoleic acid; Sidman-active avoidance; Discrimination learning (Umezawa, M. (669) 225)

Senile plaque
Alzheimer's disease; Amyloid precursor protein; β-Amyloid proteins (β/A4); β/A4 bearing carboxy-terminal peptide; Neurofibrillary tangle; Electron microscopy; Al^{3+} (Chong, Y.-H. (670) 137)

Senktide
Neurokinin receptor; Substance P; Dopamine; Substantia nigra; 6-Hydroxydopamine; Parkinson's disease (Bannon, M.J. (695) 19)

Sensitization
Rat (Badiani, A. (670) 264)

MK-801; *N*-Methyl-D-aspartate; Nociception; Flexor reflex; Plasticity (Xu, X.-J. (670) 342)

Stress; Corticosterone; Hypothalamic-pituitary-adrenal axis; Novel environment; Novelty; Context-specific sensitization; Environment-specific sensitization; Rotational behavior; Locomotor activity; Rearing behavior; Rat (Badiani, A. (673) 13)

Electrical stimulation; Prefrontal cortex; Dopaminergic neurons; Synaptic plasticity (Tong, Z.-Y. (674) 63)

Adenylyl cyclase; Cyclic AMP; Cocaine; Nucleus accumbens; Locomotor activity; Cyclic AMP-dependent protein kinase (Miserendino, M.J.D. (674) 299)

γ-Aminobutyric acid; Homogenate receptor binding; Neurotoxicity; Dopamine (Lipton, J.W. (676) 378)

Dopamine; Cocaine; Fast cyclic voltammetry; Nucleus accumbens; Ventral tegmental area; Rat (Williams, J.E.G. (678) 225)

Apomorphine; 6-Hydroxydopamine; Glutamate; *N*-Methyl-D-aspartate (Gancher, S. (682) 63)

Self-stimulation; Corticosterone; Food restriction; Reward; Opioid (Abrahamsen, G.C. (695) 186)

Maternal behavior; [^{14}C]2-Deoxyglucose autoradiography; Parturition; Vomeronasal system; Medial preoptic area (Del Cerro, M.C.R. (696) 213)

Activity; Behavior; Cadmium; Cocaine; Toxicity (Nation, J.R. (702) 223)

Sensorimotor cortex
Head trauma; Catecholamine; 3-Methoxy-4-hydroxyphenylglycol; MHPG; Contusion; Somatosensory cortex (Levin, B.E. (674) 307)

Direct current; Rat; Brain; Dark neuron; ^{45}Ca autoradiography; Anodal polarization (Islam, N. (684) 206)

Pyramidal neuron; Layer V; Burst firing (Franceschetti, S. (696) 127)

Foetal alcohol syndrome; Horseradish peroxidase; Teratogenesis; Axon terminals (Santarelli, M. (698) 241)

Sensorimotor deficit
Functional reorganization; Somatosensory cortex; Thrombosis; Recovery of function; T-maze (Pazos, A.J. (689) 224)

Sensorimotor gating
Ventral striatum; Ventral pallidum; PPI; $GABA_B$ (Kodsi, M.H. (684) 26)

Sensorimotor integration
Caudate-putamen; Globus pallidus; Auditory; Somatosensory; Electrophysiology; Rat; Multisensory response properties (Chudler, E.H. (674) 33)

Sensorimotor path
Human spinal cord; H-reflex; Movement control (Brooke, J.D. (679) 255)

Sensory
Sodium channel; Mechanoreceptor; Immunocytochemistry; Spider; Glia; Arthropod (Seyfarth, E.-A. (683) 93)

Sensory cell
Neuropeptide; Neuron; Central/peripheral nervous system; Epineurium; Eye; Statocyst; Mollusc; Snail; Immunocytochemistry; Hibernation (Kaufmann, W. (695) 125)

Sensory deprivation
Apoptosis; Cell death; Development; Olfactory bulb; Olfaction; Plasticity (Najbauer, J. (674) 245)

Olfaction; *N*-Methyl-D-aspartate; Neural plasticity; Olfactory deprivation (Wilson, D.A. (677) 238)

Sensory neuron
Neurotrophin-3; Gene targeting; *lacZ*; *trk*C; Spinal cord (Tojo, H. (669) 163)

Carbonic anhydrase; Peripheral target interaction; Botulinum toxin; Vinblastine (Mayeux, V. (694) 191)

Sensory system
Photoperiod; Sexual maturation; Testosterone; Brain metabolism; 2-DG; Quail (Teruyama, R. (697) 169)

Septal culture
Intracellular free calcium; Neurotrophin; Indo-1; Ethanol neurotoxicity; NGF (Webb, B. (701) 61)

Septal graft
Acetylcholine release; Atropine; CP 93129; Fimbria-fornix; Hippocampus; Mecamylamine; Methiothepin; 2-methyl-Serotonin; Oxotremorine (Cassel, J.-C. (704) 153)

Septal lesion
Nerve growth factor receptor; Zinc; ICC; Mossy fiber (Yu, C. (672) 55)

Septofimbrial nucleus
Cytokine; Triangular septal nucleus; Habenular nucleus; Interpeduncular nucleus; Autoradiography; Blood–brain barrier; Capillary; Choroid plexus (Maness, L.M. (700) 83)

Septum
Diagonal band of Broca; Basal forebrain; Monoamine; Electron microscopy; Learning and memory; Alzheimer's disease (Milner, T.A. (670) 121)

Cell line; T antigen; Mouse trisomy 16; Down syndrome; Alzheimer's disease; Nerve growth factor (Kim, J.-H. (671) 299)

Serotonin; Stressor; Microdialysis; Striatum; Hippocampus; Cortex; Amygdala (Kirby, L.G. (682) 189)

Cocaine; Hippocampus; Place-preference conditioning; Reward (Gong, W. (683) 221)

Discrimination learning; Hippocampus; Acetylcholine; Dopamine; Microdialysis; Dual probe; Rat (Yamamuro, Y. (684) 1)

Trisomy 16 mouse; Down's syndrome; Neuron culture; Membrane current; Action potential (Acevedo, L.D. (701) 89)

D-Serine
Post-mortem human central nervous system; Prefrontal cortex; Superior parietal cortex; Cerebellum; Spinal cord; Dementia of the Alzheimer type; Schizophrenia (Kumashiro, S. (681) 117)

Serine / threonine protein phosphatase
Second messenger; Pyramidal neuron; Immunolocalisation; Dendrite; Spine (Lowenstein, P.R. (676) 80)

Serotonergic
Lithium; Inositol; Cholinergic; Phosphoinositide; Seizure (Williams, M.B. (685) 169)

Serotonin
Aromatic L-amino acid decarboxylase; L-5-Hydroxytryptophan; Monoamine oxidase; Dopaminergic neuron; Noradrenergic neuron; Substantia nigra pars compacta; Locus coeruleus (Arai, R. (669) 145)

Brain slice; 8-OH-DPAT; Bicuculline; Epileptiform; Hippocampus; Intracellular (Salgado, D. (669) 176)

Piriform cortex; Phaseolus vulgaris leucoagglutinin; Cholera toxin B subunit; Brainstem serotonergic nuclei; Colchicine; Nialamide (Datiche, F. (671) 27)

Naloxone; Aminophylline; 5′-*N*-Ethylcarboxamidoadenosine; Morphine; Norepinephrine; Antinociception; Tail-flick; Analgesia (Yang, S.-w. (673) 170)

Neuropeptide Y; Suprachiasmatic nucleus; Intraocular transplant (Ueda, S. (673) 325)

Serotonin receptor; Human brain; Hybridization histochemistry, in situ; mRNA (Burnet, P.W.J. (676) 157)

Trigeminal; Pain; Mustard oil; Neuronal plasticity (Ebersberger, A. (676) 336)

γ-Aminobutyric acid; Glutamic acid decarboxylase; Nucleus raphe magnus; Dorsal raphe nucleus; Colocalization; Immunohistochemistry (Stamp, J.A. (677) 39)

S100β, synaptophysin; Hippocampus; Temporal cortex; Temporal pole; Parietal cortex; Hypothalamus; Morphometry; Immunocytochemistry (Azmitia, E.C. (677) 181)

Tryptophan hydroxylase; Circadian; Melatonin; Retina; Light; Dopamine; *Xenopus* (Green, C.B. (677) 283)

Serotonin$_2$ receptor; Calcium; Second messenger; Release; Degeneration (Kramer, H.K. (680) 1)

Glycogen phosphorylase; Astrocyte; 3,4-Methylenedioxymethamphetamine; Glycogen; Metabolism (Poblete, J.C. (680) 9)

Catecholamine; Immunohistochemistry; Tyrosine hydroxylase; Cardiovascular (Allen, G.V. (680) 117)

Tryptophan hydroxylase; Transcription, NF-Y; Neural gene (Reed, G.E. (682) 1)

Cocaine; Cocaine self-administration; Neurotransmitter turnover rate; Dopamine; Noradrenaline; γ-Aminobutyric acid; Glutamate; Aspartate (Dworkin, S.I. (682) 116)

Interleukin-1β; Intracellular calcium; Tyrosine kinase; Protein kinase C; C6BU-1 glioma (Kugaya, A. (682) 151)

Stressor; Microdialysis; Striatum; Hippocampus; Cortex; Amygdala; Septum (Kirby, L.G. (682) 189)

Autonomic nervous system; Cardiovascular regulation; Corticotrophin releasing factor; Enkephalin; Heart; Lateral hypothalamic area; Medulla oblongata; Neuropeptide Y; Oxytocin; Paraventricular hypothalamic nucleus; Pseudorabies virus; Raphe nuclei; Somatostatin; Stellate ganglion; Sympathetic nervous system (Jansen, A.S.P. (683) 1)

Glucocorticoid receptor; Mineralocorticoid receptor; *para*-Chloroamphetamine; Fluoxetine; Adrenalectomy (Novotney, S. (684) 19)

Superior salivatory nucleus; Pterygopalatine ganglion; Cholera toxin B subunit; Tyrosine hydroxylase; Neuropeptide; Double-immunostaining technique (Nemoto, T. (685) 33)

Spinal cord; Descending serotonergic pathway; 5-HT$_{1A}$ and NMDA receptor; 8-OH-DPAT; AP-5; Sleep; EEG power spectrum; Rat (Bjørkum, A.A. (692) 251)

5-HT$_4$ receptor; GR-113808; Dopamine; Microdialysis; Striatum; Substantia nigra; Nucleus accumbens (Pozzi, L. (692) 265)

Norepinephrine; Dopamine; Monoamine metabolite; 5,7-Dihydroxytryptamine; Alcohol drinking; Ethanol; Brain region; Dorsal raphe nucleus; Median raphe nucleus; Sprague–Dawley rat (Adell, A. (693) 70)

Morphine; Analgesia; Microdialysis; Spinal cord; Dorsal raphe; Hypothalamus (Matos, F.F. (693) 187)

Antidepressant drug; Pain; Dorsolateral funiculus (Ardid, D. (695) 253)

5-Hydroxytryptamine; Norepinephrine; Tianeptine; Antidepressant (Frankfurt, M. (696) 1)

Citalopram; Chronic treatment; Dorsal hippocampus; Microdialysis; 5-HT$_{1A}$ receptor; Terminal 5-HT autoreceptor (Invernizzi, R. (696) 62)

Blood–brain barrier; Histamine; Bradykinin; Cerebral endothelium; Vascular permeability (Butt, A.M. (696) 145)

Brain (rat); Dopamine; Electroconvulsive stimulus (ECS); Neuropeptide; Noradrenaline (Stenfors, C. (698) 39)

Stress; Renin; Adrenalectomy; Sympathectomy; β-Antagonist (Richardson Morton, K.D. (698) 185)

Extracellular Ca^{2+} concentration; Rat; Hippocampus; 5-HT$_{1A}$ receptors; EPSP; EPSC (Schmitz, D. (701) 249)

Spinal cord; Frog; 5-HT$_3$ receptor; Excitatory amino acid; *N*-Methyl-D-aspartate receptor (Holohean, A.M. (704) 184)

Social stress; 5-Hydroxyindoleacetic acid; Animal model; Prefrontal cortex; *Macaca fascicularis* (Fontenot, M.B. (705) 105)

Accessory optic system; Nucleus of the basal optic root; Subcortical visual pathways (Toledo, C.A.B. (705) 341)

2-methyl-Serotonin
Acetylcholine release; Atropine; CP 93129; Fimbria-fornix; Hippocampus; Mecamylamine; Methiothepin; Oxotremorine; Septal graft (Cassel, J.-C. (704) 153)

Serotonin-1A receptors
Rat strain; Novel environments; Tryptophan hydroxylase; Hypothalamo-pituitary-adrenal axis; Anxiety; Locomotor activity (Chaouloff, F. (693) 169)

Serotonin axon terminal
[^{3}H]Serotonin uptake autoradiography; Dopamine denervation; Nigrostriatal lesion; Caudate–putamen (Mrini, A. (669) 303)

Serotonin depletion
Serotonin transporter; mRNA; Midbrain raphe; Imipramine (Linnet, K. (697) 251)

Serotoninergic projection
Olivocochlear neuron (Thompson, A.M. (695) 263)

Serotonin 5-HT
Buspirone; rCMRglc; DPAT; Anxiolytic (Freo, U. (677) 213)

Serotonin 5-HT$_2$ receptors
Serotonin 5-HT$_3$ receptors; Supersensitivity; Nucleus; Tractus solitarius; Blood pressure; Hypertensive rat (Merahi, N. (669) 130)

Serotonin 5-HT$_3$ receptor
Cocaine; Competitive inhibition; *Xenopus* oocyte; Voltage-clamp (Fan, P. (673) 181)

Serotonin 5-HT$_2$ receptors; Supersensitivity; Nucleus; Tractus solitarius; Blood pressure; Hypertensive rat (Merahi, N. (669) 130)

Serotonin *N*-acetyltransferase
Acetyl-CoA; Arylamine *N*-acetyltransferase; Circadian rhythm; Melatonin (Wolfe, M.S. (669) 100)

Serotonin-pharmacology
Sleep cycle; State transition; Fourier analysis; Acetylcholine-pharmacology; Norepinephrine-pharmacology (Benington, J.H. (681) 141)

Serotonin receptor
Amphetamine; Behavioral sensitization; Dopamine receptor; Quantitative autoradiography (Bonhomme, N. (675) 215)

Human brain; Hybridization histochemistry, in situ; Serotonin; mRNA (Burnet, P.W.J. (676) 157)

Phosphoinositide; Hippocampus; Development (Ike, J. (678) 49)

Slow afterhyperpolarization; Locomotion; Frequency regulation; Lamprey (Wikström, M. (678) 191)

Serotonin$_2$ receptor
Serotonin; Calcium; Second messenger; Release; Degeneration (Kramer, H.K. (680) 1)

Serotonin release
Culture; Fenfluramine; 3,4-Methylenedioxyamphetamine; *p*-Chloroamphetamine; Raphe; Nimodipine; Conotoxin; Fluoxetine (Wichems, C.H. (695) 10)

Serotonin transporter
Quantitative receptor autoradiography; [^{3}H]8-OH-DPAT; [^{3}H]Cyanoimipramine; 5-HT$_{1A}$ receptor; HPLC; 5-HIAA (Arango, V. (688) 121)

Gene expression; Dorsal raphe nucleus; Hybridization, in situ; *p*-Chlorophenylalanine; Autoradiography (Yu, A. (688) 209)

mRNA; Midbrain raphe; Serotonin depletion; Imipramine (Linnet, K. (697) 251)

Serotonin uptake site
Methamphetamine; Transgenic mouse; Free radical; Superoxide dismutase (Hirata, H. (677) 345)

Serum-free
Neuritogenesis; Thrombin; Hippocampal neuron; Sprouting (Brewer, G.J. (683) 258)

Sex
Dopamine; Lordosis; Female rat; Estrogen; Progesterone; Microdialysis (Pfaus, J.G. (693) 21)

Sex difference
Vasopressin; mRNA; Dehydration; Salt-loading (Dai, W.-J. (676) 178)

EEG; Testosterone; Prenatal treatment; Interhemispheric correlation; Spectral power (Juárez, J. (694) 21)

Corpus callosum; Genu; Myelinated axon; Unmyelinated axon; Myelin sheath; Electron microscopy (Mack, C.M. (697) 152)

Cocaine; Self-administration; Social stress; Aggression; Female; Rat (Haney, M. (698) 46)

Pain; β-Endorphin; Formalin test; Behavior; Rat (Aloisi, A.M. (699) 242)

CA1 stratum radiatum; Schaffer collateral; Hippocampus; Estrogen; Light cycle (Warren, S.G. (703) 26)

Sex dimorphism
Prenatal morphine; μ Opioid receptor; Hypothalamus (Rimanóczy, A. (690) 245)

Sexual behavior
c-fos; c-jun; Estradiol; Fos; Jun-B; Jun-D; Lordosis; Progesterone (Flanagan-Cato, L.M. (673) 53)

Estrogen receptor; Aromatase; Aging; Quail (Dellovade, T.L. (674) 181)

Brain lesion; Receptivity; Reptile; Ventromedial hypothalamus (Kendrick, A.M. (680) 226)

Dopamine; Medial preoptic area; Microdialysis; Male rat; CA column (Sato, Y. (692) 66)

Prefrontal cortex; Motivation (Ågmo, A. (696) 177)

Prefrontal cortex; Amphetamine; Caffeine; Dopamine; Noradrenaline (Ågmo, A. (696) 187)

Cholecystokinin; Copulation; Dopamine; Intracranial stimulation; Nucleus accumbens; Ventral tegmental area (Markowski, V.P. (699) 266)

Aromatase control; Aromatase synthesis; Preoptic area; *Coturnix japonica*; Japanese quail; Reproduction (Foidart, A. (701) 267)

Sexual differences
Arginine-vasopressin; Ventrolateral hypothalamus; Quantitative autoradiography (Delville, Y. (681) 91)

Sexual differentiation
Prenatal stress; Medial amygdala; MePV; MePD; Sexually dimorphic nucleus; Ejaculatory behavior; Rodent; Morphometry (Kerchner, M. (672) 251)

Estrogen receptor; Brain; Autoradiography (Kühnemann, S. (691) 229)

Sexual dimorphism
Vasopressin; Norepinephrine; Neuropeptide Y; Blood pressure; Heart rate (Sato, K. (689) 71)

Sexual exhaustion
Masculine sexual behavior; Medial preoptic area; Microdialysis; Dopamine; Dihydroxyphenylacetic acid; Homovanillic acid; 5-Hydroxyindoleacetic acid (Mas, M. (675) 13)

Sexually dimorphic area pars compacta
Postnatal sexual differentiation; Migration; Stereology; Gerbil; Cell death (Holman, S.D. (694) 167)

Sexually dimorphic nucleus
Prenatal stress; Medial amygdala; MePV; MePD; Sexual differentiation; Ejaculatory behavior; Rodent; Morphometry (Kerchner, M. (672) 251)

Sexual maturation
N-Methyl-D-aspartate antagonist; Epilepsy; Schizophrenia; Development (Sircar, R. (694) 318)

Photoperiod; Testosterone; Brain metabolism; 2-DG; Sensory system; Quail (Teruyama, R. (697) 169)

Sexual orientation
Vasoactive intestinal polypeptide; Vasopressin; Human hypothalamus; Suprachiasmatic nucleus; Homosexuality (Zhou, J.-N. (672) 285)

Sexual reflex
Micturition; Bladder; Defecation (Song, L. (675) 165)

Sham feeding
Opioid antagonist; Sucrose intake; μ-Receptor; κ-Receptor; Orosensory mechanism; Palatability (Leventhal, L. (685) 205)

Sheep
Oxytocin; Vasopressin; Olfactory bulb; Maternal experience (Lévy, F. (669) 197)

Fetus; Calcium; Ontogeny; Brain; Glucocorticoid (McDonald, T.J. (675) 303)

Prolactin; Dopamine D_1 receptor; Dopamine; Ventromedial hypothalamus; SCH23390 (Curlewis, J.D. (697) 48)

Shell
Core; Rostral pole; D_2 autoreceptor; Neuronal uptake; Fast cyclic voltammetry; Dopamine (Wieczorek, W. (699) 171)

Short-term memory
Dopamine; Acetylcholine; Prefrontal cortex; Rat; Delayed-matching-to-position (Broersen, L.M. (674) 221)

SH-SY5Y cell
Apoptosis; DNA fragmentation; Bcl-2; MPP^+ (Itano, Y. (704) 240)

Shy-Drager syndrome
Cerebellin; Corticotropin-releasing hormone; Olivopontocerebellar atrophy; Neuropeptide; Cerebellum; Multiple system atrophy; Radioimmunoassay (Mizuno, Y. (686) 115)

Siberian hamster
Neural cell adhesion molecule; NCAM; Photoperiod polysialic acid (Lee, W. (690) 64)

Sidman-active avoidance
Animal model; Senescence-accelerated mouse; Dietary oil; α-Linolenic acid; Linoleic acid; Discrimination learning (Umezawa, M. (669) 225)

Sigma ligand
Glutamate; Intracellular calcium; Neuronal culture; Neuroprotection; Confocal microscopy (Klette, K.L. (704) 31)

Sigma receptor
Affinity chromatography; 3-PPP; Haloperidol; Photoaffinity labeling; Rat cerebellar receptor; Bovine cerebellar receptor (Schuster, D.I. (670) 14)

Ischemia; Hippocampus; Presynaptic potential; Neuroprotection (Shibata, S. (670) 337)

Norepinephrine; Hippocampus; *N*-Methyl-D-aspartate receptor; (+)Pentazocine; BD737; DuP 734 (Gonzalez-Alvear, G.M. (673) 61)

Sigma site
N-Methyl-D-aspartate; Kainate; Neurotoxicity; Hypoxia; Kappa opioid (Lockhart, B.P. (675) 110)

Signal-to-noise ratio
Guinea pig; Ambiguus neuron; Rectification; Afterhyperpolarization; Ca^{2+}-mediated K^+ current; Ih; Norepinephrine (Nishimura, Y. (702) 213)

Signal transduction
α_2-Adrenoceptor; Hypothalamus; Estradiol; Thermodynamics; Receptor binding; RX821002; Oxymetazoline (Karkanias, G.B. (674) 26)

Cyclic AMP-dependent protein kinase; Chemosensory system; Brain; *Apis mellifera*; Insect (Hildebrandt, H. (679) 281)

Amyloid precursor protein; Matrix protein; PC-12 cell; Olfactory neuroblast; Alzheimer's disease; NGF (Luo, Y.Q. (681) 65)

Alzheimer's disease; Inositol(1,4,5)P_3; Inositol(1,3,4,5)P_4; Calcium; Receptor; Phosphatidylinositol hydrolysis (Garlind, A. (681) 160)

Neurotrophic; Retrograde axonal transport; Phosphatidylinositol 3-kinase; PI 3-kinase; ERK; MEK; MEK kinase; GAP-43 (Johanson, S.O. (690) 55)

Human neurodevelopment; Fetal CNS; Neural cell differentiation (Larocca, J.N. (701) 135)

Tubulin; G protein; Adenylyl cyclase; Dopamine receptor (Hatta, S. (704) 23)

Silent period
Motor unit; Magnetic stimulation; Pyramidal tract (Rossini, P.M. (676) 314)

Silver staining
Excitotoxin; Limbic system; Subiculum; Kainate receptor; Papez circuit; *Macaca fascicularis* (Schmued, L.C. (695) 64)

Single-cell labeling study
Basal ganglia; Striatum; Striatopallidal projection; Striatonigral projection; Cynomolgus monkey; *Macaca fascicularis* (Parent, A. (698) 280)

Single cell recording
Descending inhibition; Thermal nociception; Microiontophoresis; Monoamine; α-Adrenoreceptor; Caudal trigeminal nucleus; Medullary dorsal horn (Cahusac, P.M.B. (700) 70)

Single channel
Olfactory transduction; Inositol-1,4,5-triphosphate; Olfactory cilia membrane; Rat (Honda, E. (703) 79)

Single-channel current
γ-Aminobutyric acid; Glycine; Hippocampus; Post-natal; Tissue-culture; Whole-cell current (Fatima-Shad, K. (704) 246)

Single-channel recording
β-Cyclazocine; *N*-Methyl-D-aspartate receptor; Neuroprotection; Fura-2; Rate constant (Sawyer, D.C. (698) 30)

Single neuron
Basal ganglia; Putamen; Caudate nucleus; Globus pallidus; Primate; Motor control; Movement; Movement direction; Precue; Ipsilateral (Jaeger, D. (694) 111)

Single unit
Learning; Memory; Recognition; Priming; Rat; Recognition; Anesthesia; Consciousness; Rhinal cortex; Visual; Hippocampal (Zhu, X.O. (689) 101)

Single unit activity
Cerebrospinal fluid; Plasma; Amino acid; Ventromedial nucleus of the hypothalamus; Brain slice (Nishimura, F. (691) 217)

Single-unit activity
Acetylcholine; AF-DX 116; Brain slice; Carbachol; Estrogen; 4-DAMP; M3; McN-A-343; Muscarinic receptor subtype; Oxotremorine-M; *p*-F-HHSiD; Pirenzepine (Kow, L.-M. (694) 29)

Single unit recording
Putamen; Bicuculline; Dystonia; Neuronal mechanism; Substantia nigra pars reticulata (Yamada, H. (677) 333)

Sinusoidal superimposition
Primary muscle spindle afferent; Ramp stretch response; Ia ending excitability; Receptor current (Schäfer, S.S. (705) 216)

σ site
(+)-SKF 10,047; (−)-SKF 10,047; Phencyclidine (PCP) site; *N*-Methyl-D-aspartate receptor; MK-801; Hippocampus; Working memory (Ohno, M. (684) 237)

(+)-SKF 10,047
σ site; (−)-SKF 10,047; Phencyclidine (PCP) site; *N*-Methyl-D-aspartate receptor; MK-801; Hippocampus; Working memory (Ohno, M. (684) 237)

(−)-SKF 10,047
σ site; (+)-SKF 10,047; Phencyclidine (PCP) site; *N*-Methyl-D-aspartate receptor; MK-801; Hippocampus; Working memory (Ohno, M. (684) 237)

SKF-83566
Dopamine; Excitatory synaptic transmission; Sulpiride; Neostriatum; Rat (Hsu, K.-S. (690) 264)

SKF 38393
Immediate-early gene; c-*fos*; D_1 receptor; D_2 receptor; Synergism; Globus pallidus; Subthalamic nucleus; Quinpirole (Ruskin, D.N. (703) 156)

SKF-10,047 (*N*-allylnormetazocine)
σ_1 Receptor; Hippocampus; Acetylcholine; Haloperidol; Amnesia; Stereoselectivity; Rat (Matsuno, K. (690) 200)

Sleep
γ-Hydroxybutyrate; Prefrontal cortex; Electrophysiology; Dopamine; Narcolepsy; Alcohol; Abuse (Godbout, R. (673) 157)

REM sleep; PACAP; Temperature; Rat; EEG (Fang, J. (686) 23)

Rat; Wake; Nucleus raphe dorsalis; Local injection; Corticotropin-like intermediate lobe peptide; Vasoactive intestinal polypeptide; *p*-Chlorophenylalanine (El Kafi, B. (686) 150)

Melatonin; Temperature; Alertness; Performance; Circadian rhythm; Phase-shifting (Deacon, S. (688) 77)

PGE_2 release; Wakefulness; Paraventricular nucleus; Ventromedial hypothalamus (Gerozissis, K. (689) 239)

Spinal cord; Descending serotonergic pathway; Serotonin; $5\text{-}HT_{1A}$ and NMDA receptor; 8-OH-DPAT; AP-5; EEG power spectrum; Rat (Bjørkum, A.A. (692) 251)

Atropine; Glucose; Memory; Spontaneous alternation; Paradoxical sleep (Stone, W.S. (694) 133)

Sleep cycle
State transition; Fourier analysis; Acetylcholine-pharmacology; Serotonin-pharmacology; Norepinephrine-pharmacology (Benington, J.H. (681) 141)

Sleep deprivation
Neurogranin; Neurogranin mRNA; RC3; Sleep regulation (Neuner-Jehle, M. (685) 143)

Sleep function; Sleep homeostasis; Intracerebroventricular; Potassium transport (Benington, J.H. (692) 86)

Thermoregulation; Preoptic/anterior hypothalamus (Feng, P.-F. (703) 93)

Sleep function
Potassium conductance; Fourier analysis; Delta power; N^6-Cyclopentyladenosine; EEG; Sleep homeostasis (Benington, J.H. (692) 79)

Sleep homeostasis; Intracerebroventricular; Sleep deprivation; Potassium transport (Benington, J.H. (692) 86)

Sleep-homeostasis
Adenosine; Electroencephalography; Power spectrum; Non-REM sleep; REM sleep (Landolt, H.-P. (675) 67)

Sleep homeostasis
Potassium conductance; Fourier analysis; Delta power; N^6-Cyclopentyladenosine; EEG; Sleep function (Benington, J.H. (692) 79)

Sleep function; Intracerebroventricular; Sleep deprivation; Potassium transport (Benington, J.H. (692) 86)

Sleep regulation
Neurogranin; Neurogranin mRNA; RC3; Sleep deprivation (Neuner-Jehle, M. (685) 143)

Sleep suppression
Tumor necrosis factor; Rat; Rabbit (Takahashi, S. (690) 241)

Sleep–wake regulation
Preoptic area; Anterior hypothalamus; Basal forebrain; Non-REM sleep; Thermosensitivity (Alam, Md.N. (696) 221)

Sleep–waking cycle
Acetylcholine; Microdialysis; Electroencephalogram; Hippocampus; Theta wave; Cat (Marrosu, F. (671) 329)

Slice
Whole-cell patch; Hippocampus; Inhibition; $GABA_A$; Chloride accumulation; Fast inhibitory postsynaptic current; Disinhibition (Ling, D.S.F. (670) 142)

Long-term potentiation; E–S potentiation; Dendritic membrane activation; Current–source density analysis; Hippocampus; CA1; Rat (Vida, I. (671) 1)

N-Methyl-D-aspartate; Delayed neuronal injury; Glutamate; CA1; Hippocampus (Wallis, R.A. (674) 75)

4-Aminopyridine; Release of radiolabelled neurotransmitters; Ca^{2+}; Brain region; Synaptosome (Versteeg, D.H.G. (686) 233)

Sympathetic preganglionic neuron; Oxytocin receptor; Spinal cord; In vitro; Autonomic nervous system; Intracellular recording; Biocytin (Desaulles, E. (699) 139)

Slice culture
Hippocampus; Zinc; 4-Aminopyridine; $GABA_A$ depolarizing potential; $GABA_A$ hyperpolarizing potential; Epileptiform activity (Ricciardi, T.N. (680) 80)

Slice, in vitro
Epilepsy; Seizure; Hippocampus; Tetanus toxin; Electroencephalography (Lee, C.L. (677) 97)

Slice preparation
Graded impulse; Action potential; Anterior hypothalamus; Preoptic area; Patch-clamp (Johansson, S. (700) 240)

Slow afterhyperpolarization
Locomotion; Serotonin receptor; Frequency regulation; Lamprey (Wikström, M. (678) 191)

Slow depolarizing after-potential
Epileptiform activity; Seizure-like activity; Kynurenic acid; Cocaine; Tetrodotoxin; Veratridine (Tian, L.-M. (680) 164)

Small cell cap
Granule cells; Auditory brain stem; Biotinylated dextran amine; Retrograde transport; Olivocochlear fibers (Zhao, H.B. (700) 295)

Smooth muscle cell
β-Protein; β-Amyloid; β-Amyloid precursor protein; Tissue culture (Frackowiak, J. (676) 225)

β-Protein; ApoE3/E4; Transthyretin; Tissue culture (Mazur-Kolecka, B. (698) 217)

Cerebral amyloid angiopathy; Dog; Aging; Morphometry; Ultrastructure (Wegiel, J. (705) 225)

Snail
Neural graft; Fast-blue labeling; Growth restoration (Gomot, A. (682) 127)

Neuropeptide; Neuron; Central/peripheral nervous system; Sensory cell; Epineurium; Eye;

Statocyst; Mollusc; Immunocytochemistry; Hibernation (Kaufmann, W. (695) 125)

SNAP-25
NADPH diaphorase; Nitric oxide; Synaptophysin; Cerebellum; Modular organization; Monkey (Yan, X.X. (669) 285)

SNB
PG-21; Immunohistochemistry; Steroid; Testosterone; Spinal cord (Lubischer, J.L. (694) 61)

Sneeze
c-Fos protein; Immunohistochemistry; Trigeminal nerve; Respiratory reflex; Cat (Wallois, F. (687) 143)

Social behavior
Interleukin-1; Interleukin-1 receptor antagonist; Body weight; Rat (Bluthé, R.-M. (677) 171)

Social behaviour
Corticosterone; Interleukin-1β; Adrenalectomy; RU38486; Body temperature; Mouse (Goujon, E. (702) 173)

Social interaction
Bicuculline methiodide; Conflict; Kindling; Long-term potentiation (Sanders, S.K. (699) 250)

Social isolation
Opioid receptor; Autoradiography, in vivo; Social play; Diprenorphine (Vanderschuren, L.J.M.J. (680) 148)

Stress; Pentobarbital; Hypnotic activity; Noradrenergic system; CRF; Aggressive behavior (Ojima, K. (684) 87)

Social play
Opioid receptor; Autoradiography, in vivo; Social isolation; Diprenorphine (Vanderschuren, L.J.M.J. (680) 148)

Social stress
Corticotropin-releasing hormone; Vasopressin; Corticosterone; Desensitization (Bugajski, J. (681) 223)

Cocaine; Self-administration; Aggression; Sex difference; Female; Rat (Haney, M. (698) 46)

Serotonin; 5-Hydroxyindoleacetic acid; Animal model; Prefrontal cortex; *Macaca fascicularis* (Fontenot, M.B. (705) 105)

Sodium butyrate
Alzheimer's disease; Neurotoxicity; Tau phosphorylation (Nuydens, R. (688) 86)

Sodium channel
Mechanoreceptor; Immunocytochemistry; Spider; Glia; Sensory; Arthropod (Seyfarth, E.-A. (683) 93)

Planar lipid bilayer; Lidocaine; Local anesthetic; Batrachotoxin; Subconductance (Salazar, B.C. (699) 305)

Area postrema; Circumventricular organ; Potassium channel; Angiotensin II (Hay, M. (705) 199)

Sodium channel blocker
Traumatic brain injury; Glutamate release inhibitor; Excitotoxicity; Neuronal damage; Motor deficit (Sun, F.-Y. (673) 133)

Sodium current
Olfactory bulb slice; Patch-clamp; Interneuron (Bardoni, R. (703) 19)

Sodium deficiency
Synaptic potential; Osmotic pressure; Cell swelling; Excitatory postsynaptic potential; Spreading depression; Seizure (Chebabo, S.R. (695) 203)

Sodium dependency
Inward rectifier; Potassium current; Horizontal cell; Voltage-clamp; Retina (Pfeiffer-Linn, C.L. (701) 81)

Sodium depletion
Fos immunoreactivity; Organum vasculosum lamina terminalis; Subfornical organ; Sodium intake; Sodium sensitive-neuron (Vivas, L. (679) 34)

Sodium intake
Fos immunoreactivity; Sodium depletion; Organum vasculosum lamina terminalis; Subfornical organ; Sodium sensitive-neuron (Vivas, L. (679) 34)

Sodium molybdate
[^{3}H]Triamcinolone acetonide; Glucocorticoid receptor; Leupeptin; Ion exchange chromatography; Heterogeneity (Yoneda, Y. (685) 105)

Sodium sensitive-neuron
Fos immunoreactivity; Sodium depletion; Organum vasculosum lamina terminalis; Subfornical organ; Sodium intake (Vivas, L. (679) 34)

Solitary nucleus
Vagus; Reproduction; Cervix; Uterus; Vagina; Viscera; Nucleus of the solitary tract (Hubscher, C.H. (702) 251)

Solubilization
Alzheimer's disease; Phospholipase C-δ, Tau; Basic fibroblast growth factor; Electron microscopy (Shimohama, S. (669) 217)

Solution hybridization
Antinociception; RNA; Central nervous system locus; δ-Opioid receptor (Jenab, S. (691) 69)

Soma size
Succinate dehydrogenase activity; Dorsal root ganglion neuron; Ventral horn neuron; Cat (Ishihara, A. (676) 212)

Somatic
Autonomic; Intermediolateral cell column; Dorsal root ganglia; Renin–angiotensin system (Moeller, I. (701) 301)

Somatosensory
Caudate-putamen; Globus pallidus; Sensorimotor integration; Auditory; Electrophysiology; Rat; Multisensory response properties (Chudler, E.H. (674) 33)

Lateral cervical nucleus; Ventral posterolateral nucleus; Synaptic vesicle; Amino acid; Immunogold (Kechagias, S. (675) 316)

Somatosensory asymmetry
Amygdala kindling; Anteromedial cortex lesion; Recovery of function; Kindled seizure stage; Neurological model (Hernandez, T.D. (673) 208)

Somatosensory cortex
Head trauma; Catecholamine; 3-Methoxy-4-hydroxyphenylglycol; MHPG; Contusion; Sensorimotor cortex (Levin, B.E. (674) 307)

Neuromodulation; Intracellular; Norepinephrine; γ-Aminobutyric acid (Sessler, F.M. (675) 171)

Magnetoencephalography; Motor cortex; Human; Neuromagnetic source localisation; Somatosensory evoked field; Movement-related magnetic field (Kristeva-Feige, R. (682) 22)

Magnetoencephalography; Evoked response; Median nerve; Ulnar nerve; Human (Forss, N. (685) 68)

Functional reorganization; Thrombosis; Recovery of function; T-maze; Sensorimotor deficit (Pazos, A.J. (689) 224)

Auditory cortex; Evoked potential; Gamma; Spontaneous EEG (MacDonald, K.D. (694) 1)

Somatosensory evoked field
Magnetoencephalography; Motor cortex; Somatosensory cortex; Human; Neuromagnetic source localisation; Movement-related magnetic field (Kristeva-Feige, R. (682) 22)

Somatosensory system
Cross-correlation analysis; Inhibitory circuit; Neuronal coordination; Species difference; Ventrobasal thalamus (Alloway, K.D. (691) 46)

Somatostatin
Paracrine release; Autocrine function; Prepacemaker nucleus; Pacemaker nucleus; Electric fish; Biocytin; Gymnotiformes; *Apteronotus leptorhynchus* (Stroh, T. (674) 1)

Interstitial neuron; Subplate neuron; Neuropeptide Y; Substance P; Cholecystokinin (Ang, L.-C. (674) 329)

Sympathoadrenal system; Depolarization; Neuropeptide Y; Enkephalin; Plasticity (Maynard-Salgado, G. (676) 268)

Diabetes mellitus; Experimental; Rat; Streptozocin; Hypothalamus; Somatotropin-releasing hormone (Leidy, Jr., J.W. (681) 84)

Autonomic nervous system; Cardiovascular regulation; Corticotrophin releasing factor; Enkephalin; Heart; Lateral hypothalamic area; Medulla oblongata; Neuropeptide Y; Oxytocin; Paraventricular hypothalamic nucleus; Pseudorabies virus; Raphe nuclei; Serotonin; Stellate ganglion; Sympathetic nervous system (Jansen, A.S.P. (683) 1)

γ-Aminobutyric acid; Visual deprivation; Visual cortex; Intracortical inhibition (Benevento, L.A. (689) 172)

Activins; Magnocellular neurosecretory system; Nucleus of the solitary tract; Paraventricular

nucleus; Supraoptic nucleus (Sawchenko, P.E. (694) 233)

Suprachiasmatic nucleus; Tyrosine hydroxylase; Ontogenesis; Immunohistochemistry; Confocal laser scanning microscopy; Vasoactive intestinal polypeptide; Neuropeptide Y; Aromatic L-aminoacid decarboxylase (Battaglia, A.A. (696) 7)

Growth hormone; Growth hormone-releasing factor; Hyperglycemia; Hypoglycemia; Hypothalamic anterolateral deafferentation (Okada, K. (699) 33)

Preprotachykinin-A mRNA; Preprosomatostatin mRNA; Substance P; Inflammation; Dorsal root ganglia; Hybridization, in situ; Rat (Hanesch, U. (700) 279)

Somatostatin receptor
CGS 8216; Ammonium acetate; Frontoparietal cortex; Hippocampus; Rat (Boyano-Adánez, M.C. (688) 1)

Somatotropin-releasing hormone
Diabetes mellitus; Experimental; Rat; Streptozocin; Hypothalamus; Somatostatin (Leidy, Jr., J.W. (681) 84)

Songbird
Auditory learning; Attention; Habituation; 2-Deoxyglucose; Caudal auditory telencephalon (Scharmann, M.G. (682) 83)

Song control
Aromatase; Zebra finch; Estradiol; Neuron (Merten, M.D.P. (671) 317)

Song control nucleus
Male sexual behavior; Immunocytochemistry; Volume reconstruction; Zebra finch; *Taeniopygia guttata* (Ball, G.F. (699) 83)

Spastic paraplegia
Acromelic acid; Kainic acid; AMPA; Excitatory amino acid; Glutamate receptor; Neurotoxicity; Spinal cord (Kwak, S. (702) 61)

Spatial coherence
Hippocampal slice; CA3; Spontaneous epileptiform burst; Mossy fiber stimulation; Phase-locking; Chaos; Strange attractor; One-dimensional strobomap (Hayashi, H. (686) 194)

Spatial convergence
Stimulus-induced oscillation; Visual cortex; Oscillatory field; Cat (Bauer, R. (669) 291)

Spatial discrimination
Hippocampus; Protein kinase C; Rat (Golski, S. (676) 53)

Spatial learning
Hippocampus; Protein kinase C; Mouse; Oxiracetam (Fordyce, D.E. (672) 170)

Brain energy metabolism; Streptozotocin; Acetyl-L-carnitine; Choline acetyltransferase; Animal model; Neurodegeneration; Alzheimer's disease (Prickaerts, J. (674) 142)

Spatial memory
Radial arm maze; Learning strategy; High affinity choline transport; Cholinergic; Rat (Janis, L.S. (679) 99)

192-Saporin; Immunotoxin; Alzheimer's disease; Cholinergic basal forebrain; Animal model (Walsh, T.J. (702) 233)

Spatial navigation
Temperature; *N*-Methyl-D-aspartate antagonist; Ischemia; Behavior (Green, E.J. (702) 145)

Spatial orientation
Exploration; Cerebellum; Anxiety; Inhibition (Monnier, C. (702) 169)

Spatial property
Otolith; Vestibular nuclear neuron; Off-vertical axis rotation; Bidirectional response sensitivity; Response dynamic; Rat (Lai, C.H. (693) 39)

Species difference
Cross-correlation analysis; Inhibitory circuit; Neuronal coordination; Somatosensory system; Ventrobasal thalamus (Alloway, K.D. (691) 46)

Spectral analysis
Brain temperature; Djungarian hamster; Electroencephalogram; Hypothermia; Torpor (Deboer, T. (670) 153)

Spectral power
Sex difference; EEG; Testosterone; Prenatal treatment; Interhemispheric correlation (Juárez, J. (694) 21)

Spectrophotometry
Intrinsic optical properties; Cell swelling; Imaging; Brain slice; Rat (Kreisman, N.R. (693) 179)

Speech
Primary auditory cortex; Monkey; Current source density; Multiunit activity; Place of articulation; Tonotopic organization (Steinschneider, M. (674) 147)

Spermidine
Spermine; Putrescine; Neurite regeneration; Basic fibroblast growth factor; Cultured hippocampal neuron (Chu, P.-j. (673) 233)

Putrescine; Spermine; Chronic cocaine; Convulsion; Mouse (Shimosato, K. (684) 243)

Spermine
Calcium; 6-Cyano-7-nitroquinoxaline-2,3-dione; Dizocilpine; Neurosteroid; Nimodipine; *N*-methyl-D-aspartate; Pregnenolone sulfate (Fahey, J.M. (669) 183)

Spermidine; Putrescine; Neurite regeneration; Basic fibroblast growth factor; Cultured hippocampal neuron (Chu, P.-j. (673) 233)

Putrescine; Spermidine; Chronic cocaine; Convulsion; Mouse (Shimosato, K. (684) 243)

Polyamine; Hippocampal slice; CA1; Field potential; Paired-pulse facilitation; Ca^{2+} channel (Ferchmin, P.A. (689) 189)

Spermophilus tridecemlineatus
Retina; Ganglion cell; Visual system; Collateral (Lugo, N. (673) 161)

SP-Fragment
Tachykinin; Substance P; Central cardiovascular control; Behavior; Tachykinin receptor; Central nervous system (Tschöpe, C. (690) 15)

Sphingosine
FITC-albumin; Cerebral venule; Venular pressure; Calphostin C; Vascular permeability; Brain; Rat (Mayhan, W.G. (696) 106)

Sphingosylphosphorylcholine
Ryanodine receptor; Calcium release; Microsome; IP_3 receptor (Dettbarn, C. (669) 79)

Spider
Sodium channel; Mechanoreceptor; Immunocytochemistry; Glia; Sensory; Arthropod (Seyfarth, E.-A. (683) 93)

Spike-and-wave
GABA-withdrawal syndrome; Baclofen; Electroencephalogram; Cerebral cortex; Epilepsy (Brailowsky, S. (702) 126)

Spinal
Ia; II; Locomotion; Stretch; Joint; Human (Cheng, J. (672) 89)

Ia afferent-motoneuron; Stretch; Presynaptic; Oligosynaptic; Human (Cheng, J. (681) 197)

Spinal cord
Neurotrophin-3; Gene targeting; *lac*Z; *trk*C; Sensory neuron (Tojo, H. (669) 163)

Undernutrition: Myelin; Pyramidal tract; D-wave; I-wave; Development (Quirk, G.J. (670) 277)

Dorsal rhizotomy; Immunoreactive dynorphin; Cerebral area; Deafferentation pain; Deafferentation syndrome; Neuroplasticity; Rat (Candeletti, S. (670) 289)

Nociception; Antinociception; Substance P; Naloxone; Opioid; Tail-flick test; Capsaicin; Primary afferent; C-fiber; CP-96,345; CP-96,344; CP-99,994 (Yashpal, K. (674) 97)

Carrageenan inflammation; Indomethacin; Krox-24 expression; Nociception (Buritova, J. (674) 211)

Substance P receptor; Parabrachial nucleus; Nociception; Rat (Ding, Y.-Q. (674) 336)

Familial amyotrophic lateral sclerosis; Transgenic mice; Cu,Zn superoxide dysmutase (SOD); Motor neuron; Brainstem; Peripheral nerve (Dal Canto, M.C. (676) 25)

L-Glutamate; γ-Aminobutyric acid; Retrograde tracing; Immunogold reaction; Spinomedullary neuron (Maxwell, D.J. (676) 103)

Amyotrophic lateral sclerosis; Motor neurone disease; Glutamate receptor; NMDA receptor; NR1 mRNA; c-*jun*; Glycine transporter (Virgo, L. (676) 196)

Transplantation; Noradrenaline; Quantitative autoradiography; α_1-Adrenoceptor; [^{3}H]Prazosin (Roudet, C. (677) 1)

Prostaglandin E_2; Hyperalgesia; *N*-Methyl-D-aspartate receptor; Prostaglandin E_2 receptor (Nishihara, I. (677) 138)

Protein kinase C gamma; Tolerance; Morphine; Immunocytochemistry; Analgesia (Mao, J. (677) 257)

Morphine withdrawal; Naloxone; *N*-Methyl-D-aspartate receptor; Nitric oxide; Blood pressure; Heart rate; Behavior (Buccafusco, J.J. (679) 189)

γ-Aminobutyric acid; Receptor; Chronic inflammation; Neurectomy; Pain; Complete Freund's adjuvant (CFA); Plasticity (Castro-Lopes, J.M. (679) 289)

Excitatory amino acid; Nociception; Hyperalgesia; Allodynia; Chronic pain; Neural graft; Chromaffin cell (Siegan, J.B. (680) 88)

D-Serine; Post-mortem human central nervous system; Prefrontal cortex; Superior parietal cortex; Cerebellum; Dementia of the Alzheimer type; Schizophrenia (Kumashiro, S. (681) 117)

Glutamate; AMPA; Kainate; Cell culture; Excitotoxicity; Neurotoxicity; Ca^{2+}; Calcium (Yin, H.-z. (689) 265)

Metabotropic glutamate receptor; Excitatory amino acid; Magnesium; Autoreceptor; Positive feedback (Gotani, H. (689) 281)

Gephyrin; Retrograde tracing; Immunogold reaction; Postsynaptic dorsal column pathway (Maxwell, D.J. (690) 127)

Descending serotonergic pathway; Serotonin; 5-HT_{1A} and NMDA receptor; 8-OH-DPAT; AP-5; Sleep; EEG power spectrum; Rat (Bjørkum, A.A. (692) 251)

Morphine; Analgesia; Microdialysis; Dorsal raphe; Hypothalamus; Serotonin (Matos, F.F. (693) 187)

PG-21; Immunohistochemistry; SNB; Steroid; Testosterone (Lubischer, J.L. (694) 61)

Substance P; Microphotometry; Thiamine deficiency; Antinociceptive effect; Immunohistochemical estimation (Tadano, T. (696) 21)

Morphine tolerance; L-type calcium channel; Antinociception; Dihydropyridine; Thapsigargin; Brainstem; Striatum (Bernstein, M.A. (696) 83)

Nitric Oxide; Nociception (Chapman, V. (697) 258)

Sympathetic preganglionic neuron; Oxytocin receptor; Slice; In vitro; Autonomic nervous system; Intracellular recording; Biocytin (Desaulles, E. (699) 139)

Adenosine release (Golembiowska, K. (699) 315)

Respiration; Ventral respiratory group; Nucleus retroambigualis; Inspiratory neuron; Axonal collateral; Phrenic nucleus: Brainstem (Sasaki, S.-I. (701) 108)

β-Endorphin; Cerebrospinal fluid; Analgesia; Chromatography, high performance liquid; Pain; Excitatory amino acids; Neurokinins (Bach, F.W. (701) 192)

Acromelic acid; Kainic acid; AMPA; Excitatory amino acid; Glutamate receptor; Neurotoxicity; Spastic paraplegia (Kwak, S. (702) 61)

Rat; Subarachnoid space; Capillary; Blood–brain barrier; Electron microscope (Fujimoto, K. (702) 284)

N-Methyl-D-aspartate receptor; AMPA receptor; Nociception; Central hypersensitivity; Rat (Chapman, V. (703) 45)

Frog; Serotonin; 5-HT_3 receptor; Excitatory amino acid; *N*-Methyl-D-aspartate receptor (Holohean, A.M. (704) 184)

White matter; Ventral funiculus; Histology; Motor function; Spontaneous running rat; Permanent microdialysis implantation (Gerin, C. (704) 191)

Ro 15-4513; $GABA_A$ receptor; Benzodiazepine; Hippocampus; Cerebellum; Medulla (Mehta, A.K. (704) 289)

Morphine; c-Fos; Nociception; Time course (Honoré, P. (705) 91)

Coexistence; Nerve injury; Pain; Plasticity; Primary sensory neuron (Zhang, Q. (705) 149)

Spinal cord compression
Spinal cord injury; Dorsal column; Potassium channel; 4-Aminopyridine (Fehlings, M.G. (677) 291)

Spinal cord: dorsal horn
Anesthestics: general, halothane (Yamamori, Y. (702) 162)

Spinal cord injury
Methylprednisolone; Lesion site; Secondary injury; Inflammatory reaction; Macrophage invation; Central nervous system (Bartholdi, D. (672) 177)

Spinal cord compression; Dorsal column; Potassium channel; 4-Aminopyridine (Fehlings, M.G. (677) 291)

Urinary bladder; Micturition; Capsaicin; Afferent pathway (Cheng, C.-L. (678) 40)

Flexion reflex; Functional electrical stimulation; Stepping generator (Nicol, D.J. (684) 230)

Spinal cord slice
Dorsal horn; Pain; Nociception; Dorsal root potential; $GABA_A$ receptor; Presynaptic inhibition (Shimizu, T. (691) 92)

Spinal cord stimulation
Rat; Periaqueductal gray matter; Microdialysis; γ-Aminobutyric acid; 5-Hydroxytryptamine; Glutamate; Substance P (Stiller, C.-O. (699) 231)

Spinal cord tumor
Adenovirus; Gene therapy; Herpes simplex virus; Thymidine kinase (Çolak, A. (691) 76)

Spinal motoneuron
Axotomy; Sciatic nerve; Neurotrophin; Cell death (Schmalbruch, H. (700) 254)

Spinal rat
Baclofen; Antispasticity; Antinociception (Bertman, L.J. (684) 8)

Dextrorphan; Morphine antinociception; Tail flick (Advokat, C. (699) 157)

Spinal slice
Substantia gelatinosa; Neurokinin; GR73632; GR64349; GR82334 (Bentley, G.N. (673) 101)

Spinal trigeminal nucleus
Carboxylesterase; Oligodendrocyte; Cingulate cortex; Hypothalmus (Yamada, T. (674) 175)

Spindle afferent
Motoneuron; Trigeminal; EPSP (Grimwood, P. (686) 259)

Motoneuron; Trigeminal; EPSP (Grimwood, P. (689) 299)

Spine
Second messenger; Pyramidal neuron; Serine/threonine protein phosphatase; Immunolocalisation; Dendrite (Lowenstein, P.R. (676) 80)

Spinocerebellum
Purkinje cell; Dorsal spinocerebellar tract (Perciavalle, V. (695) 293)

Spinomedullary neuron
L-Glutamate; γ-Aminobutyric acid; Spinal cord; Retrograde tracing; Immunogold reaction (Maxwell, D.J. (676) 103)

Spiny lobster
Olfactory receptor neuron; Whole cell patch clamp; Olfaction; Mixture; Interaction; Transduction; Crustacean; Binding (Simon, T.W. (678) 213)

Spiradoline
U50,488; Nor-binaltorphimine; Morphine; Cocaine; Kappa opioid; Drug self-administration (Glick, S.D. (681) 147)

Spontaneous activity
Development; Cochlea; Chicken; Hearing; Basilar papilla; Rhythmic; Auditory nerve (Lippe, W.R. (703) 205)

Spontaneous alternation
Atropine; Glucose; Sleep; Memory; Paradoxical sleep (Stone, W.S. (694) 133)

Spontaneous alternation performance
Substance P; WIN 62577; NK-1 receptor; Mouse (Ukai, M. (673) 335)

Spontaneous EEG
Auditory cortex; Somatosensory cortex; Evoked potential; Gamma (MacDonald, K.D. (694) 1)

Spontaneous epileptiform burst
Hippocampal slice; CA3; Mossy fiber stimulation; Phase-locking; Chaos; Strange attractor; One-dimensional strobomap; Spatial coherence (Hayashi, H. (686) 194)

Spontaneously hypertensive rat
Autoradiography; Nucleus tractus solitarii; Angiotensin II; α_2-Adrenoceptor; Blood pressure; Heart rate (Fior, D.R. (679) 168)

Neuropeptide Y-(13–36); Neuropeptide Y receptor; PYY binding; Nucleus tractus solitarius; Autoradiography; Blood pressure; Intracerebroventricular injection; Rat brain (Aguirre, J.A. (684) 159)

Microdialysis; Dopamine; Nucleus accumbens; Cholecystokinin (Kirouac, G.J. (689) 245)

Spontaneous motor activity
Intracerebroventricular; Pituitary adenylate cyclase-activating polypeptide; Vasoactive intestinal polypeptide; Thyrotropin-releasing hormone; Rearing behavior; Reserpine; Hypothermia (Masuo, Y. (700) 219)

Spontaneous running rat
Spinal cord; White matter; Ventral funiculus; Histology; Motor function; Permanent microdialysis implantation (Gerin, C. (704) 191)

Spontaneous seizure
Kindling; Epilepsy; Perforant path; Dentate gyrus; Amygdala (Milgram, N.W. (670) 112)

Sprague–Dawley rat
Endothelin-1; BQ-123, Cyclo (-D-Trp-D-Asp-Pro-D-Val-Leu-); Regional vascular resistance; IRL 1620, N-Suc-(Glu^9,Ala^{11,15})ET-1(8-21); Regional blood flow; Systemic hemodynamics; Central nervous system (Rebello, S. (676) 141)

Hippocampal granule cell; Amygdala; Kindling; Wistar rat; Colchicine (Tsunoda, K. (691) 18)

Serotonin; Norepinephrine; Dopamine; Monoamine metabolite; 5,7-Dihydroxytryptamine; Alcohol drinking; Ethanol; Brain region; Dorsal raphe nucleus; Median raphe nucleus (Adell, A. (693) 70)

Spreading cortical depression
Cerebral blood flow; Hyperglycemia; Mannitol; Laser-Doppler flowmetry; Indomethacin; Nitro-L-arginine methyl ester; Rat (Duckrow, R.B. (703) 145)

Spreading depression
Glial fibrillary acidic protein; mRNA; Potassium; MK-801 (Bonthius, D.J. (674) 314)

Cerebral cortex; Ketamine; AP5; *N*-Methyl-D-aspartate receptor; MK-801 (Rashidy-Pour, A. (693) 64)

Osmotic effect; Cell swelling; Extracellular space; Hyponatremia; Seizure; Epilepsy; Neuron damage (Huang, R. (695) 195)

Synaptic potential; Osmotic pressure; Cell swelling; Sodium deficiency; Excitatory postsynaptic potential; Seizure (Chebabo, S.R. (695) 203)

Halothane; α-Chloralose; Glutamate; Potassium; Microdialysis (Saito, R. (699) 109)

Osmotic effect; Cell volume; Interstitial space; Tissue resistance; Hypertonia; Synaptic transmission; Water deprivation (Huang, R. (702) 181)

S100 protein
Guinea pig; Vestibular system; Labyrinthectomy; Vestibular compensation; Plasticity (Rickmann, M. (688) 8)

Sprouting
Parkinson's disease; Adrenal medullary graft; 6-Hydroxydopamine; Retrograde transport; Dopamine uptake; Striatum (Hansen, J.T. (670) 197)

Neuritogenesis; Thrombin; Hippocampal neuron; Serum-free (Brewer, G.J. (683) 258)

Squirrel monkey
Area 3b; Correlated activity; Dynamic maintenance; Syndactyly (Garraghty, P.E. (686) 119)

SR 95531
Stress; $GABA_A$ receptor; Prefrontal cortex; Restraint (Gruen, R.J. (684) 112)

ST91
Muscle rigidity; Dexmedetomidine; Methylnaloxonium; Ketanserin; α Adrenergic receptor; Alfentanil; Electromyography (Weinger, M.B. (669) 10)

Stab wound
Growth inhibitory factor; Gliosis; Reactive astrocyte; Alzheimer's disease; Western blot; Northern blot (Hozumi, I. (688) 143)

Startle
Reticular formation; Fear; Cyclic AMP; Amygdala (De Lima, T.C.M. (700) 59)

Audiogenic seizure; Reticular formation; Seizure network; Habituation; Genetically epilepsy-prone rat (Faingold, C.L. (704) 218)

State
Optical Imaging; EEG; RSA; Cell swelling; Theta; Cat (Rector, D.M. (696) 151)

State-dependent learning
Muscimol; Bicuculline; Place learning; Morris water maze task; Rat (Nakagawa, Y. (681) 126)

Ethanol; Diazepam; Muscimol; Benzodiazepine/$GABA_A$ receptor complex; Rat (Nakagawa, Y. (686) 70)

State transition
Sleep cycle; Fourier analysis; Acetylcholine-pharmacology; Serotonin-pharmacology; Norepinephrine-pharmacology (Benington, J.H. (681) 141)

Statin
Human oligodendrocyte; Pre-oligodendrocyte; Basic fibroblast growth factor; Apoptosis (Prabhakar, S. (672) 159)

Statocyst
Neuropeptide; Neuron; Central/peripheral nervous system; Sensory cell; Epineurium; Eye; Mollusc; Snail; Immunocytochemistry; Hibernation (Kaufmann, W. (695) 125)

Status epilepticus
Atipamezole; Dexmedetomidine; Epilepsy; Hippocampus; Kainic acid; Neuronal damage (Halonen, T. (693) 217)

Liposome; Phenytoin; Amygdala; Dibutyryl-cAMP; Horseradish peroxidase; Blood-brain barrier (Mori, N. (703) 184)

Staurosporine
Nerve growth factor; MAP kinase; ERK; PC12D cell; Neurite (Sano, M. (688) 213)

Steal
Arteriovenous; Brain slice; Electrophysiology; Hippocampus; Hypoglycemia; Hypoxia; Ischemia (Sekhon, L.H.S. (704) 107)

Stellate ganglion
Autonomic nervous system; Cardiovascular regulation; Corticotrophin releasing factor; Enkephalin; Heart; Lateral hypothalamic area; Medulla oblongata; Neuropeptide Y; Oxytocin; Paraventricular hypothalamic nucleus; Pseudorabies virus; Raphe nuclei; Serotonin; Somatostatin; Sympathetic nervous system (Jansen, A.S.P. (683) 1)

Stem cell
Carbohydrate; Cell sorting; Cholera toxin B subunit; Flow cytometry (Flaris, N.A. (678) 99)

Stepping generator
Flexion reflex; Spinal cord injury; Functional electrical stimulation (Nicol, D.J. (684) 230)

Stereology
Animal model; Brain; Neuron; Rhesus monkey (Pakkenberg, H. (693) 201)

Sexually dimorphic area pars compacta; Postnatal sexual differentiation; Migration; Gerbil; Cell death (Holman, S.D. (694) 167)

Stereoselectivity
σ_1 Receptor; Hippocampus; Acetylcholine; SKF-10,047 (*N*-allylnormetazocine); Haloperidol; Amnesia; Rat (Matsuno, K. (690) 200)

Stereotactic
Cerebellar nucleus; Cerebellum; Dystonia; Kainic acid (LeDoux, M.S. (697) 91)

Stereotypic behavior
Anandamide (arachidonylethanolamide); Δ^9-Tetrahydrocannabinol; Cannabinoid receptor; Dopamine; Nigrostriatal dopaminergic neuron; Motor activity (Romero, J. (694) 223)

Stereotypy
Amphetamine; Cocaine; Dopamine; Glutamate; γ-Aminobutyric acid; Striatum; Mouse (Karler, R. (671) 100)

Cocaine; Sulpiride; SCH-23390; Dopamine receptor; D1-like; D2-like; *N*-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Receptor occupancy; Locomotor activity; Nucleus accumbens (Neisewander, J.L. (671) 201)

Aspartate; Cocaine; Glutamate; Microdialysis; Nucleus accumbens (Smith, J.A. (683) 264)

Steroid
Anxiety; Motor activity; Burying behavior; Rat; 3α-Hydroxy-5α-pregnan-20-one; Progesterone (Picazo, O. (680) 135)

Levator ani; Bulbocavernosus; Ischiocavernosus; Testosterone (Freeman, L.M. (690) 1)

PG-21; Immunohistochemistry; SNB; Testosterone; Spinal cord (Lubischer, J.L. (694) 61)

Steroid abuse
Testosterone; Steroid receptor; Athlete; Hypothalamus; Castration; Immunocytochemistry; Optical density; Opioid peptide (Menard, C.S. (669) 255)

Steroid hormone
Extra-genomic; γ-Aminobutyric acid; Membrane; Hippocampus; Perforant pathway; Progesterone (Frye, C.A. (696) 113)

Steroidogenesis
Pregnenolone; Neurosteroid; Brain; Japanese quail (Tsutsui, K. (678) 1)

Steroid receptor
Testosterone; Steroid abuse; Athlete; Hypothalamus; Castration; Immunocytochemistry; Optical density; Opioid peptide (Menard, C.S. (669) 255)

Monodelphis; Immunohistochemistry; Gonadectomy; Androgen (Iqbal, J. (703) 1)

Stimulus-induced oscillation
Visual cortex; Spatial convergence; Oscillatory field; Cat (Bauer, R. (669) 291)

Stomach
Heat shock cognate protein 70; Heat shock protein; Restraint-water immersion stress; Cerebral cortex; Rat; mRNA; Northern blotting (Fukudo, S. (675) 98)

Strain difference
Focal cerebral ischemia; Intraluminal thread; Rat; Filament (Oliff, H.S. (675) 20)

Focal cerebral ischemia; Rat (Oliff, H.S. (699) 329)

Strange attractor
Hippocampal slice; CA3; Spontaneous epileptiform burst; Mossy fiber stimulation; Phase-locking; Chaos; One-dimensional strobomap; Spatial coherence (Hayashi, H. (686) 194)

Stratum lucidum
Adrenal steroid; Corticosterone; Type I; Type II receptors; Stress; Dynorphin mRNA; *N*-Methyl-D-aspartate receptor; AMPA receptor; Dentate gyrus; Mossy fiber (Watanabe, Y. (680) 217)

Streptozocin
Diabetes mellitus; Experimental; Rat; Hypothalamus; Somatotropin-releasing hormone; Somatostatin (Leidy, Jr., J.W. (681) 84)

Streptozotocin
Brain energy metabolism; Acetyl-L-carnitine; Spatial learning; Choline acetyltransferase; Animal model; Neurodegeneration; Alzheimer's disease (Prickaerts, J. (674) 142)

Dynorphin; Diabetes; Feeding (Berman, Y. (685) 129)

Stress
Microdialysis; Noradrenaline; Paraventricular nucleus; Restraint; Tail-pinch; Desensitization; Adaptation (Shibasaki, T. (670) 169)

Corticosterone; Hypothalamic-pituitary-adrenal axis; Novel environment; Novelty; Sensitization; Context-specific sensitization; Environment-specific sensitization; Rotational behavior; Locomotor activity; Rearing behavior; Rat (Badiani, A. (673) 13)

Cortisol; Hippocampus; Norepinephrine; Urine analysis; *Tupaia belangeri* (Fuchs, E. (673) 275)

Conditioning; Context-specific sensitization; Environment-specific sensitization; Novelty; Rotational behavior; Striatum; Dopamine; Rat (Badiani, A. (674) 291)

Dopamine; Nucleus accumbens; Microdialysis; Footshock (Kalivas, P.W. (675) 325)

Handling; Gentling; Neonatal period; Maternal separation; Experimental allergic encephalomyelitis; DA rat (Laban, O. (676) 133)

Adrenal steroid; Corticosterone; Type I; Type II receptors; Dynorphin mRNA; *N*-Methyl-D-aspartate receptor; AMPA receptor; Dentate gyrus; Mossy fiber; Stratum lucidum (Watanabe, Y. (680) 217)

Social isolation; Pentobarbital; Hypnotic activity; Noradrenergic system; CRF; Aggressive behavior (Ojima, K. (684) 87)

$GABA_A$ receptor; Prefrontal cortex; SR 95531; Restraint (Gruen, R.J. (684) 112)

d-Amphetamine; Dopamine; 6-Hydroxydopamine; Locomotor activity; Microdialysis; Neostriatum; Schizophrenia (King, D. (685) 117)

Microdialysis; Noradrenaline; Hypothalamus; Paraventricular nucleus; Neuropeptide Y; Opioid system (Shibasaki, T. (688) 189)

ACTH; Corticotropin releasing factor; Dexamethasone; IL-1 receptor; Pituitary (Takao, T. (688) 219)

Hypothalamic paraventricular nucleus; Morphometry; Synaptic organization; Vascularity; Wistar rat (Mulders, W.H.A.M. (689) 47)

Hypothalamic paraventricular nucleus; Corticotropin-releasing hormone; Fos-immunoreactivity; Pharmacogenetics; Selective breeding; Wistar rat (Mulders, W.H.A.M. (689) 61)

Histamine; H_3 receptor; Amitriptyline; Cortex (Ghi, P. (690) 104)

Fos; Noradrenergic system; Prazosin; Betaxolol; ICI118551; Fluphenazine; Ketanserin; WAY 100135 (Stone, E.A. (694) 279)

Interleukin-1; Interleukin-1 receptor antagonist; Intracerebroventricular; Rat; Escape; Fear; Learned helplessness (Maier, S.F. (695) 279)

Serotonin; Renin; Adrenalectomy; Sympathectomy; β-Antagonist (Richardson Morton, K.D. (698) 185)

Stress-induced analgesia
Tolerance, opioid; Nociception; Inflammation, chronic; Analgesia; Tail-flick latency; Complete Freund's adjuvant; Pain, chronic (Gutstein, H.B. (680) 173)

Stressor
Serotonin; Microdialysis; Striatum; Hippocampus; Cortex; Amygdala; Septum (Kirby, L.G. (682) 189)

Stretch
Spinal; Ia; II; Locomotion; Joint; Human (Cheng, J. (672) 89)

Spinal; Ia afferent-motoneuron; Presynaptic; Oligosynaptic; Human (Cheng, J. (681) 197)

Stretch-activated channel blocker
Regulatory volume decrease; K^+ channel blocker; Cl^- channel blocker; Ouabain; Bumetanide; Cytosolic Ca^{2+} (Lippmann, B.J. (686) 29)

Striatal matrix
Thalamostriatal fiber; CM/Pf complex; Central lateral nucleus; Posterior thalamic group; Ethmoid nucleus (Deschênes, M. (701) 288)

Striatal synaptosome
Dopamine release; $[Ca^{2+}]_i$; 4-Aminopyridine; KCl depolarization; Ca^{2+} channel (Carvalho, C.M. (669) 234)

Striatal tissue slice
MPTP; Parkinsonism; Oxygen free radical; DMTU; [^{3}H]Dopamine uptake (Heo, J.H. (671) 321)

Striate cortex
Corticotectal projection; Extrastriate cortex; Visual field representation; Retinotectal projection; Horseradish peroxidase (Amer-Ferrer, G. (695) 283)

Stria terminalis
Fast Blue; Tyrosine hydroxylase; Limbic system; Catecholamine; Nucleus tractus solitarius (Terenzi, M.G. (672) 289)

Striatonigral projection
Basal ganglia; Striatum; Striatopallidal projection; Single-cell labeling study; Cynomolgus monkey; *Macaca fascicularis* (Parent, A. (698) 280)

Striatopallidal projection
Basal ganglia; Striatum; Striatonigral projection; Single-cell labeling study; Cynomolgus monkey; *Macaca fascicularis* (Parent, A. (698) 280)

Striatum
Rat; Cerebrospinal fluid; Dopamine; MPP^+; 6-Hydroxydopamine; Parkinson's disease (Espino, A. (669) 19)

Parkinson's disease; Adrenal medullary graft; Sprouting; 6-Hydroxydopamine; Retrograde

transport; Dopamine uptake (Hansen, J.T. (670) 197)

Phencyclidine; MK-801; γ-Aminobutyric acid; *N*-Methyl-D-aspartate; Microdialysis (Hondo, H. (671) 54)

Oxidative stress; Aging; Muscarinic receptor (Joseph, J.A. (671) 73)

Long-term potentiation; Dopamine release; Ischemia; Glutamate (Inoue, H. (671) 95)

Amphetamine; Cocaine; Dopamine; Glutamate; γ-Aminobutyric acid; Stereotypy; Mouse (Karler, R. (671) 100)

Hydrogen peroxide; Microdialysis; Ischemia (Hyslop, P.A. (671) 181)

Glial cell line-derived neurotrophic factor; Dopamine; Tyrosine hydroxylase; Substantia nigra; Neuroprotection (Kearns, C.M. (672) 104)

Quinolinic acid; 6-Hydroxydopamine; Substantia nigra; Dopaminergic system; Neuroprotection (Venero, J.L. (672) 153)

Aging; Dopamine; Muscarinic receptor; *S*-Adenosyl-methionine; Cholesterol (Joseph, J.A. (673) 185)

Dopamine transporter; [^{3}H]GBR 12935; Prefrontal cortex; Piperazine acceptor site; Dopamine uptake site (Gordon, I. (674) 205)

Conditioning; Context-specific sensitization; Environment-specific sensitization; Novelty; Stress; Rotational behavior; Dopamine; Rat (Badiani, A. (674) 291)

Basal ganglia; Calretinin; Calcium-binding proteins; Human brain; Immunohistochemistry (Parent, A. (674) 347)

3-Nitropropionic acid; Quinolinic acid; Huntington's disease; Apomorphine; Rotational behavior; Motor behavior asymmetry (Borlongan, C.V. (676) 231)

Programmed cell death; Aging (Zhang, L. (677) 177)

Adenosine; Adenosine receptor; Hippocampus; Cerebral cortex; Cerebellum; Brain; Immunohistochemistry (Rivkees, S.A. (677) 193)

Dopamine; Neuroleptic; RWJ 37796; Extrapyramidal symptom; Supersensitivity (Shapiro, L.A. (677) 250)

Nucleus accumbens; MDMA; Ecstasy; Withdrawal; Drug abuse; Cocaine (White, S.R. (681) 167)

Acetylcholine; D_1-Dopamine agonist; Glutamate; Reserpine; Supersensitivity; In vitro (Login, I.S. (681) 209)

Serotonin; Stressor; Microdialysis; Hippocampus; Cortex; Amygdala; Septum (Kirby, L.G. (682) 189)

Mesolimbic; Catecholamine; Ultrastructure; Immunocytochemistry (Van Bockstaele, E.J. (682) 215)

Adenosine; Brain microdialysis; Aging; *N*-Methyl-D-aspartate receptor; Adenosine kinase; Adenosine deaminase (Pazzagli, M. (684) 103)

Antipsychotic drug; Glutamate; Taurine; Neuroleptic; Tardive dyskinesia (Lidsky, T.I. (686) 104)

Unilateral nigrostriatal lesion; Rat; Dopamine contents; Ipsilateral rotation; 6-Hydroxydopamine (Matsuda, H. (686) 111)

[^{14}C]Deoxyglucose; Caudate-putamen; Motor cortex; Forelimb; Hindlimb (Brown, L.L. (686) 207)

6-Hydroxydopamine; D1 Receptor; D2 Receptor; Dopamine; GBR-12909; Self-injurious behavior (Sivam, S.P. (690) 259)

Neurotensin; Nucleus accumbens; Hybridization, in situ; Basal ganglia; Antipsychotic; γ-Aminobutyric acid (Decker, K.P. (691) 9)

ATP; P_{2Y} purinoceptor; Dopamine; Microdialysis; Ion channel (Zhang, Y.-X. (691) 205)

Angiotensin II; Dopamine; Rotation; Losartan; Substantia nigra; Haloperidol (Jenkins, T.A. (691) 213)

Accumbens; Amygdala; Cocaine; Dopamine D1; Reinforcement; SCH 23390; Self-administration (Caine, S.B. (692) 47)

5-HT_4 receptor; GR-113808; Serotonin; Dopamine; Microdialysis; Substantia nigra; Nucleus accumbens (Pozzi, L. (692) 265)

Dopamine-release; Cadmium; *N*-Methyl-D-aspartate; Kainate; Amperometry, in vivo; Superfusion, in vivo; Rat (Olivier, V. (695) 1)

Transplantation; Astrocyte; Glial fibrillary acidic protein; Migration; Thalamus; Ventral mesencephalon (Pundt, L.L. (695) 25)

1-Methyl-4-phenylpyridinium ion; 6-Hydroxydopamine; Microdialysis; Rat; Parkinsonism (Espino, A. (695) 151)

Ethanol; *N*-Methyl-D-aspartate; Nomifensine; Dopamine release; Uptake; Electrochemistry, in vivo (Lin, A.M.-Y. (696) 15)

Morphine tolerance; L-type calcium channel; Antinociception; Dihydropyridine; Thapsigargin; Spinal cord; Brainstem (Bernstein, M.A. (696) 83)

Asphyxia; Newborn; Na^+,K^+-ATPase; Brain; Reoxygenation (Goplerud, J.M. (696) 161)

3-Nitropropionic acid; Huntington's disease; Progressive spontaneous locomotor activity changes; Systemic injection (Borlongan, C.V. (697) 254)

Acetylcholine; Calcium; Dissociated cell; Fractional efflux; Glutamate; High-performance liquid chromatography (Login, I.S. (697) 271)

Dynorphin; Enkephalin; Morphine; Naltrexone; Caudate-putamen; Nucleus accumbens-olfactory tubercle; Tolerance; Dependence (Trujillo, K.A. (698) 69)

N-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; [^{3}H]7-OH-DPAT; [^{3}H]Spiperone; D_3 dopamine receptor; Nucleus accumbens; Olfactory tubercle; Rat brain (Levant, B. (698) 146)

Basal ganglia; Striatopallidal projection; Striatonigral projection; Single-cell labeling study; Cynomolgus monkey; *Macaca fascicularis* (Parent, A. (698) 280)

Corticostriatal afferent; Fos; Dopamine receptor; Glutamate receptor; Cortex (Liste, I. (700) 1)

Methamphetamine; Cortex; Glutamate; Dopamine; Microdialysis (Stephans, S.E. (700) 99)

Adenosine; *N*-Methyl-D-aspartate; Deoxycoformycin; Dilazep; Focused microwave sacrifice; Microinjection (Delaney, S.M. (702) 72)

Aromatic L-amino acid decarboxylase; Dopamine; 6-Hydroxydopamine; L-Dihydroxyphenylalanine; Parkinson's disease; Immunocytochemistry (Mura, A. (704) 51)

Stroboscopic illumination
Chicken; Form-deprivation myopia; Dopaminergic amacrine cell; Basic fibroblast growth factor (Rohrer, B. (686) 169)

Stroke
Glucose transport; Neuronal protein; Brain metabolism (McCall, A.L. (670) 29)

Proto-oncogene; Immediate-early gene; Heat-shock; Middle cerebral artery occlusion; Hybridization, in situ (Soriano, M.A. (670) 317)

Cortex; Recovery; Motor function; Norepinephrine; Trauma; Rat (Goldstein, L.B. (674) 167)

Cerebral ischemia; Gerbil; Adenosine antagonist; CP 66,713; Chlorostyrylxanthine; CGS 15943; DPCPX (Phillis, J.W. (705) 79)

Structural equation modeling
Neural network; Multimodal interaction; Pavlovian conditioning; Auditory learning; Path analysis; 2-Deoxyglucose; Rat (McIntosh, A.R. (683) 228)

Strychnine
Acoustic startle response; β-Alanine; Glycine receptor; Habituation; Hyperekplexia; Prepulse inhibition; Rat (Koch, M. (671) 63)

Seizure; Glutamate; Glycine; 5,7-Dichlorokynurenic acid; (+)HA-966; ACPC; D-CPP; AP7; Dizocilpine (Peterson, S.L. (702) 101)

Strychnine-insensitive glycine antagonist
Felbamate; *N*-Methyl-D-aspartate receptor; Excitotoxicity; Neuroprotection; Calcium; Cortical neuron (Kanthasamy, A.G. (705) 97)

Subarachnoid space
Rat; Spinal cord; Capillary; Blood–brain barrier; Electron microscope (Fujimoto, K. (702) 284)

Subcellular distribution
Human brain; Ultrastructure; Receptor; Marker enzyme (Maloteaux, J.-M. (687) 155)

Subconductance
Planar lipid bilayer; Lidocaine; Local anesthetic; Batrachotoxin; Sodium channel (Salazar, B.C. (699) 305)

Subcortical
6-Hydroxydopamine lesion; Voltammetry; Cortical; Psychosis (Thompson, T.L. (686) 93)

Subcortical visual pathways
Accessory optic system; Nucleus of the basal optic root; Serotonin (Toledo, C.A.B. (705) 341)

Subfornical organ
Fos immunoreactivity; Sodium depletion; Organum vasculosum lamina terminalis; Sodium intake; Sodium sensitive-neuron (Vivas, L. (679) 34)

Hypovolaemia; Polyethylene glycol; Osmotic stress; Hypertonic saline; c-*fos* (Smith, D.W. (698) 232)

γ-Aminobutyric acid; $GABA_A$ receptor; $GABA_B$ receptor; Muscimol; Bicuculline; Baclofen (Inenaga, K. (705) 85)

Subiculum
Posterior cingulate cortex; Long-term potentiation/depression; Synaptic plasticity; Electrophysiology, in vitro (Hedberg, T.G. (670) 181)

Excitotoxin; Limbic system; Kainate receptor; Papez circuit; Silver staining; *Macaca fascicularis* (Schmued, L.C. (695) 64)

Subparaventricular zone
Suprachiasmatic nucleus; Intergeniculate leaflet; Paraventricular hypothalamic nucleus; Paraventricular thalamic nucleus; Retrochiasmatic area; γ-Aminobutyric acid; Benzodiazepine receptor (Gao, B. (700) 142)

Subplate neuron
Interstitial neuron; Somatostatin; Neuropeptide Y; Substance P; Cholecystokinin (Ang, L.-C. (674) 329)

Substance P
Trigeminal ganglion; Migraine; Neurogenic inflammation; Calcitonin gene-related peptide; Vasoactive intestinal peptide; Antidromic vasodilatation (Escott, K.J. (669) 93)

Basal forebrain; Cat; Enkephalin; Cholinergic system; Immunocytochemistry (Rieck, R.W. (672) 237)

Spontaneous alternation performance; WIN 62577; NK-1 receptor; Mouse (Ukai, M. (673) 335)

Nociception; Antinociception; Naloxone; Opioid; Tail-flick test; Capsaicin; Spinal cord; Primary afferent; C-fiber; CP-96,345; CP-96,344; CP-99,994 (Yashpal, K. (674) 97)

Interstitial neuron; Subplate neuron; Somatostatin; Neuropeptide Y; Cholecystokinin (Ang, L.-C. (674) 329)

Preprotachykinin mRNA; Dorsal root ganglia; Synovium; Monoarthritis; Rat (Garrett, N.E. (675) 203)

Ciliary ganglion; Calcitonin gene-related peptide; Vasoactive intestinal polypeptide; Neuropeptide Y; Tyrosine hydroxylase; Dopamine-β-hydroxylase; Human (Kirch, W. (681) 229)

LIF; IL-1β; Axotomy; Receptor; Sympathetic; Regulation; Nuclease protection assay; mRNA; Schwann cell; Fibroblast (Ludlam, W.H. (685) 12)

Synapse; Nucleus tractus solitarius; Paraventricular hypothalamic nucleus; WGA-HRP-colloidal gold; Retrograde tract tracing; Immunohistochemistry; Electron microscopy (Kawano, H. (689) 136)

Tachykinin; SP-Fragment; Central cardiovascular control; Behavior; Tachykinin receptor; Central nervous system (Tschöpe, C. (690) 15)

Neurokinin receptor; Senktide; Dopamine; Substantia nigra; 6-Hydroxydopamine; Parkinson's disease (Bannon, M.J. (695) 19)

Human; Newborn; Brainstem; Neurokinin-1; Binding site; Autoradiography (Jordan, D. (695) 117)

Microphotometry; Thiamine deficiency; Antinociceptive effect; Immunohistochemical estimation; Spinal cord (Tadano, T. (696) 21)

Rat; Spinal cord stimulation; Periaqueductal gray matter; Microdialysis; γ-Aminobutyric acid; 5-Hydroxytryptamine; Glutamate (Stiller, C.-O. (699) 231)

Preprotachykinin-A mRNA; Preprosomatostatin mRNA; Somatostatin; Inflammation; Dorsal root ganglia; Hybridization, in situ; Rat (Hanesch, U. (700) 279)

Dopamine; Blood pressure; Ventral tegmental area; Substantia nigra; Raclopride; SCH 23390; Vasopressin; DiMe-C7 (Cornish, J.L. (701) 28)

Nervous system; Freund's adjuvant; Monoarthritis; Neurokinin A; Calcitonin gene-related peptide; Neuropeptide Y (Bileviciute, I. (704) 71)

Substance P receptor
Spinal cord; Parabrachial nucleus; Nociception; Rat (Ding, Y.-Q. (674) 336)

Retinohypothalamic projection; Suprachiasmatic nucleus; Retinal fiber; Immunohistochemistry; Rat (Takatsuji, K. (698) 53)

Substantia gelatinosa
Spinal slice; Neurokinin; GR73632; GR64349; GR82334 (Bentley, G.N. (673) 101)

Dorsal horn; Lamina I; Electron microscopy; Double labelling; Immunocytochemistry; Immunogold (Ma, W. (692) 99)

Substantia innominata
Basalis nucleus of Meynert; Zona incerta; Cerebral blood flow; Autoradiography; Electrical stimulation; Alzheimer's disease (Vaucher, E. (691) 57)

Substantia nigra
Entopeduncular nucleus; Globus pallidus; c-*fos*; Dopamine antagonist; D_1 receptor; D_2 receptor (Wirtshafter, D. (670) 205)

Glial cell line-derived neurotrophic factor; Dopamine; Tyrosine hydroxylase; Striatum; Neuroprotection (Kearns, C.M. (672) 104)

Quinolinic acid; 6-Hydroxydopamine; Striatum; Dopaminergic system; Neuroprotection (Venero, J.L. (672) 153)

Cotransmission; Dense-cored vesicle; Dopamine; Opiate; Opioid peptide (Sesack, S.R. (672) 261)

N-Methyl-4-phenylpyridinium ion; Neurodegeneration; Parkinson's disease; Dopamine; Rat; Carboline (Neafsey, E.J. (675) 279)

Antibody microprobe; Dopamine; In vivo; Neurokinin A; Rat brain; Release (Furmidge, L.J. (679) 241)

Dopamine receptor; Behaviour; *N*-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Autoradiography (Lee, C.Y. (681) 205)

Neurotensin; Dopaminergic neuron; Whole-cell recording; Cationic current; Inwardly rectifying potassium current; G-protein; Inositol 1,4,5-trisphosphate (Wu, T. (683) 242)

Microdialysis; γ-Aminobutyric acid; Electrical stimulation; Internal capsule (Biggs, C.S. (684) 172)

Basal ganglia; Dopamine; Tyrosine hydroxylase; Mesolimbic; Nigrostriatal (Tan, Y. (689) 151)

Angiotensin II; Dopamine; Rotation; Losartan; Striatum; Haloperidol (Jenkins, T.A. (691) 213)

Dopamine; Parkinson's disease; Human; Synaptic vesicle (Thibaut, F. (692) 233)

$5\text{-}HT_4$ receptor; GR-113808; Serotonin; Dopamine; Microdialysis; Striatum; Nucleus accumbens (Pozzi, L. (692) 265)

Neurokinin receptor; Substance P; Senktide; Dopamine; 6-Hydroxydopamine; Parkinson's disease (Bannon, M.J. (695) 19)

Dopamine; D_1 receptor; Grooming; Tachykinin (Stoessl, A.J. (700) 115)

Dopamine; Blood pressure; Ventral tegmental area; Raclopride; SCH 23390; Vasopressin; DiMe-C7; Substance P (Cornish, J.L. (701) 28)

Lipopolysaccharide; Astrocyte; Microglia; 6-hydroxydopamine; Tyrosine hydroxylase; Dopamine; Parkinson's disease (Bronstein, D.M. (704) 112)

Substantia nigra pars compacta
Aromatic L-amino acid decarboxylase; L-5-Hydroxytryptophan; Serotonin; Monoamine oxidase; Dopaminergic neuron; Noradrenergic neuron; Locus coeruleus (Arai, R. (669) 145)

Substantia nigra pars reticulata
Superior colliculus; Parvicellular reticular formation; Axon collateral; Rat (Yasui, Y. (674) 122)

Putamen; Bicuculline; Dystonia; Neuronal mechanism; Single unit recording (Yamada, H. (677) 333)

Deafferentation; c-*fos*; Subthalamic nucleus; Non-NMDA receptor; Transneuronal cell death (Saji, M. (703) 165)

Subthalamic nucleus
Basal ganglia; Cytochrome oxidase; *N*-Methyl-D-aspartate; Succinate dehydrogenase (Blandini, F. (669) 59)

Immediate-early gene; c-*fos*; D_1 receptor; D_2 receptor; Synergism; Globus pallidus; SKF 38393; Quinpirole (Ruskin, D.N. (703) 156)

Deafferentation; c-*fos*; Substantia nigra pars reticulata; Non-NMDA receptor; Transneuronal cell death (Saji, M. (703) 165)

Subtype
Angiotensin; Receptor; Human; Brain; Losartan; Autoradiography (MacGregor, D.P. (675) 231)

α1 Subunit
Xenopus oocyte; Glycine receptor; α2 Subunit; Protein kinase C; Whole-cell voltage clamp (Nishizaki, T. (687) 214)

α2 Subunit
Xenopus oocyte; Glycine receptor; α1 Subunit; Protein kinase C; Whole-cell voltage clamp (Nishizaki, T. (687) 214)

Subventricular zone
Epidermal growth factor; Transforming growth factor-α; Nervous system; Development; Cerebellum; Hybridization, in situ (Seroogy, K.B. (670) 157)

Succinate dehydrogenase
Basal ganglia; Cytochrome oxidase; *N*-Methyl-D-aspartate; Subthalamic nucleus (Blandini, F. (669) 59)

Succinate dehydrogenase activity
Soma size; Dorsal root ganglion neuron; Ventral horn neuron; Cat (Ishihara, A. (676) 212)

Sucrose intake
Opioid antagonist; Sham feeding; μ-Receptor; κ-Receptor; Orosensory mechanism; Palatability (Leventhal, L. (685) 205)

Sudomotor axon
Aging; Nerve regeneration; Motor axon; Sciatic nerve; Nerve repair (Verdú, E. (696) 76)

Suicide
Depression; *N*-Methyl-D-aspartate receptor; Glycine; Glutamate; Frontal cortex; Human (Nowak, G. (675) 157)

μ-Opioid receptor; [^{3}H]Tyr-D-Ala-Gly-*N*-methyl-Phe-Gly-ol; Human brain; Aging; Depression (Gabilondo, A.M. (682) 245)

Suicide reaction
C1 inhibitor; Alzheimer's disease; Dystrophic neurite (Walker, D.G. (675) 75)

Sulfatide
Oligodendrocyte; Myelin; Glycolipid; Galactocerebroside; Ultrastructural immunocytochemistry (Schiff, R. (686) 143)

Sulpiride
Cocaine; SCH-23390; Dopamine receptor; D1-like; D2-like; *N*-Ethoxycarbonyl-2-ethoxy-1,2-dihydroquinoline; Receptor occupancy; Locomotor activity; Stereotypy; Nucleus accumbens (Neisewander, J.L. (671) 201)

(−)-Sulpiride
Cocaine; Conditioned place preference; SCH 23390; MK-801; DNQX; Rat (Cervo, L. (673) 242)

Sulpiride
Neuroleptic; Paw test; Neostriatum; Nucleus accumbens; Olfactory tubercle; D_2 receptor (Prinssen, E.P.M. (673) 283)

Microinjection; Intracraneal temperature; Dopamine; Lateral hypothalamus; Dopamine D2 receptor; Brain self-stimulation; Neuroleptic malignant syndrome (Parada, M.A. (674) 117)

Dopamine release; Acetylcholine; Dopamine D_2-receptor; Quinpirole; Hyperkinesis (Russell, V. (676) 343)

Dopamine; Excitatory synaptic transmission; SKF-83566; Neostriatum; Rat (Hsu, K.-S. (690) 264)

Sulpride
PACAP; Microinjection; DA; Lateral hypothalamus; D_2 receptor; Drinking; Osmolarity; Blood pressure (Puig de Parada, M. (696) 254)

Superconducting quantum interference device
Middle latency auditory evoked magnetic field; Middle latency auditory evoked response; Human auditory cortex; Magnetoencephalography; Magnetic resonance imaging (Yoshiura, T. (703) 139)

Superfluous transmitter
Colocalization; Neuroendocrinology; False transmitter; Interaction; Cotransmission; Periventriculo-hypophyseal (Vanhatalo, S. (687) 205)

Superfusion, in vivo
Dopamine-release; Cadmium; Striatum; *N*-Methyl-D-aspartate; Kainate; Amperometry, in vivo; Rat (Olivier, V. (695) 1)

Superior cerebellar peduncle
Magnetic stimulation; Cerebellum; Motor cortical excitability; Corticospinal neuron; Dentatothalamo-cortical pathway; Dentate nucleus (Saito, Y. (694) 200)

Superior cervical ganglion
Axoplasmic transport; Adrenaline; Acetylcholine; Desensitization; Organelle motion; Axonal transport control (Kawakami, T. (683) 88)

Nitric oxide; Sympathetic preganglionic neuron; Hypertensive rat (Tang, F.R. (691) 153)

Superior colliculus
Suprageniculate nucleus; Bilateral projection; WGA–HRP; Fluorescent tracer; Double-labeled neuron; Light and electron microscopy; Extrageniculate visual system; Cat (Katoh, Y.Y. (669) 298)

Substantia nigra pars reticulata; Parvicellular reticular formation; Axon collateral; Rat (Yasui, Y. (674) 122)

Primary motor cortex; Frontal eye field; Orofacial movement; Anterograde axonal tracing; Intracortical microstimulation; Monkey (Tokuno, H. (703) 217)

Retinal ganglion cell; Uni- and bilateral projection; Double labeling; Fluorescent tracer; Ocular enucleation (Farid Ahmed, A.K.M. (704) 307)

Superior laryngeal nerve
Dorsal respiratory group; Ventrolateral nucleus tractus solitarius; NBQX; Respiratory control (Karius, D.R. (682) 235)

Superior parietal cortex
D-Serine; Post-mortem human central nervous system; Prefrontal cortex; Cerebellum; Spinal cord; Dementia of the Alzheimer type; Schizophrenia (Kumashiro, S. (681) 117)

Superior salivatory nucleus
Pterygopalatine ganglion; Cholera toxin B subunit; Tyrosine hydroxylase; Serotonin; Neuropeptide; Double-immunostaining technique (Nemoto, T. (685) 33)

Superoxide dismutase
Endothelium; Indomethacin; Hypertension; Cranial window; *N*-Nitro-L-arginine (Riedel, M.W. (671) 21)

Methamphetamine; Transgenic mouse; Free radical; Serotonin uptake site (Hirata, H. (677) 345)

Supersensitivity
Serotonin 5-HT_2 receptors; Serotonin 5-HT_3 receptors; Nucleus; Tractus solitarius; Blood pressure; Hypertensive rat (Merahi, N. (669) 130)

Dopamine; Neuroleptic; RWJ 37796; Striatum; Extrapyramidal symptom (Shapiro, L.A. (677) 250)

Acetylcholine; D_1-Dopamine agonist; Glutamate; Reserpine; Striatum; In vitro (Login, I.S. (681) 209)

Supersensitization
L-DOPA; Parkinson's disease; ACh release; Microdialysis; 6-Hydroxydopamine (Ueda, H. (698) 213)

Suprachiasmatic
Transplantation; Aging; Circadian; Neural graft; Hamster (Viswanathan, N. (686) 10)

Suprachiasmatic nucleus
Circadian rhythm; Biological clock; Synchronization; Electrophysiology (Bouskila, Y. (670) 333)

Vasoactive intestinal polypeptide; Vasopressin; Human hypothalamus; Sexual orientation; Homosexuality (Zhou, J.-N. (672) 285)

NPY; Circadian; Phase shift; Wheel running; Hamster (Biello, S.M. (673) 25)

Serotonin; Neuropeptide Y; Intraocular transplant (Ueda, S. (673) 325)

Circadian rhythm; Methamphetamine; Haloperidol; Locomotor activity; Phase–response curve (Honma, S. (674) 283)

Circadian rhythm; Monosodium glutamate; Intergeniculate leaflet; Photic stimulation; Constant light; Fos immunocytochemistry (Edelstein, K. (675) 135)

Paraventricular nucleus; Circadian rhythms; Phaseolus vulgaris-leucoagglutinin; Corticotropin-releasing factor; Dual immunocytochemistry (Vrang, N. (684) 61)

Circadian rhythm; Pacemaker; Protein synthesis; Anisomycin; Cell culture; Antisense; Vasopressin (Watanabe, K. (684) 179)

Circadian rhythm; Melatonin; Potassium conductance; H-current (Jiang, Z.-G. (687) 125)

Anophthalmic mice; Vasoactive intestinal polypeptide (Laemle, L.K. (688) 203)

Arginine-vasopressin; Quantitative autoradiography; Lactation; Ventrolateral hypothalamus; Dorsomedial hypothalamic nucleus (Delville, Y. (689) 147)

Circadian rhythm; Intergeniculate leaflet; Nonphotic stimulus; Fos immunoreactivity (Edelstein, K. (690) 254)

Nitric oxide; Circadian rhythm; Fos; Photic entrainment (Weber, E.T. (692) 137)

Aging; Vasopressin; Vasoactive intestinal polypeptide; Light intensity; Immunocytochemistry (Lucassen, P.J. (693) 261)

Long-term potentiation; Field potential; Circadian rhythm (Nishikawa, Y. (695) 158)

Circadian rhythm; α-Fluoromethylhistidine; FMH; Hamster; Histamine; Light (Eaton, S.J. (695) 227)

Circadian rhythm; Aging (Watanabe, A. (695) 237)

Tyrosine hydroxylase; Ontogenesis; Immunohistochemistry; Confocal laser scanning microscopy; Vasoactive intestinal polypeptide; Somatostatin; Neuropeptide Y; Aromatic L-aminoacid decarboxylase (Battaglia, A.A. (696) 7)

Retinohypothalamic projection; Retinal fiber; Substance P receptor; Immunohistochemistry; Rat (Takatsuji, K. (698) 53)

Activity; c-*fos*; Hamster; Immunocytochemistry; Intergeniculate leaflet; Neuropeptide Y; Nonphotic; Rhythm (Janik, D. (698) 137)

Intergeniculate leaflet; Subparaventricular zone; Paraventricular hypothalamic nucleus; Paraventricular thalamic nucleus; Retrochiasmatic area; γ-Aminobutyric acid; Benzodiazepine receptor (Gao, B. (700) 142)

Astrocyte; Calcium; Immunocytochemistry; Protein kinase C; Vasopressin (Van der Zee, E.A. (701) 99)

Suprageniculate nucleus
Superior colliculus; Bilateral projection; WGA–HRP; Fluorescent tracer; Double-labeled neuron; Light and electron microscopy; Extrageniculate visual system; Cat (Katoh, Y.Y. (669) 298)

Supraoptic
Oxytocin; Circadian rhythm; Microdialysis; Paraventricular (Kalsbeek, A. (682) 75)

Supraoptic nucleus
Angiotensin II; Losartan; Paraventricular hypothalamus; Lamina terminalis; Kininase II inhibitor; Enalapril; Captopril; Bradykinin antagonist (Hoe 140) (Rowland, N.E. (669) 73)

Calcium-binding protein; Calcium buffer; Calretinin; Salt loading; Hypothalamic paraventricular nucleus; Rat (Arai, R. (673) 339)

Wistar rat; WKY rat; Osmoreception; Immediate-early gene; Paraventricular hypothalamus; Lamina terminalis; Area postrema (Rowland, N.E. (675) 127)

Dehydration; mRNA; CRH; Corticosterone; Paraventricular nucleus; Adrenal gland (Watts, A.G. (687) 63)

Activins; Magnocellular neurosecretory system; Nucleus of the solitary tract; Paraventricular nucleus; Somatostatin (Sawchenko, P.E. (694) 233)

Survival
Axotomy; Degeneration; Neurotrophin-3; Ciliary neurotrophic factor (Weibel, D. (679) 249)

Neuron; Glial; Tissue culture; NADPH diaphorase; Nitric oxide synthase (Page, G.K. (697) 157)

SV40 large T antigen
Apoptosis; Programmed cell death; Neuronal cell line (Hisanaga, K. (684) 79)

Swallowing
Nucleus ambiguus; Nucleus of the solitary tract; Pseudorabies virus; Pharynx (Bao, X. (696) 246)

Swim test
Magnetic stimulation; Depression; Electroconvulsive shock; Apomorphine-induced stereotypy; Seizure inhibition (Fleischmann, A. (699) 130)

Swine
Endorphin; Methionine-enkephalin; Respiration; Hypoxia; Microdialysis; Newborn; Development (Yan, S. (687) 217)

Symmetric synapse
Interneuron; Cortical circuitry; Microcolumn (Del Río, M.R. (690) 133)

Symmetry
Arthritis; Neurogenic inflammation; Neuropeptide (Kidd, B.L. (688) 72)

Sympathectomy
Dorsal root ganglion; Peripheral sensory innervation; Dopamine; DOPA; 3-*O*-methyl-DOPA; HPLC-ED; Rat (Bertrand, A. (681) 201)

Serotonin; Stress; Renin; Adrenalectomy; β-Antagonist (Richardson Morton, K.D. (698) 185)

Sympathetic
LIF; IL-1β; Axotomy; Receptor; Substance P; Regulation; Nuclease protection assay; mRNA; Schwann cell; Fibroblast (Ludlam, W.H. (685) 12)

Sympathetic activity
γ-Aminobutyric acid; Glycine; Sympathetic rhythm (Clement, M.E. (696) 258)

Sympathetic ganglion
Opioid peptide; Opiate receptor; Synapse; Inhibition (Zhang, C. (683) 59)

Sympathetic ingrowth
Muscarinic receptor; Medial septum; Hippocampus; Lesion; Receptor binding; Pirenzepine (Harrell, L.E. (676) 386)

Muscarinic receptor; Medial septum; Hippocampus; Lesion; Internalization; Plasticity (Ayyagari, V. (676) 394)

Muscarinic receptor; Medial septum; Hippocampus; Plasticity (Kolasa, K. (684) 201)

Sympathetic nerve discharge
Cat brainstem; Coupled oscillator; Ordinary coherence; Partial coherence; Urethane anesthesia (Zhong, S. (670) 329)

Sympathetic nervous system
Peripheral neuropathy; Hyperalgesia; Neuropeptide Y (Tracey, D.J. (669) 245)

A-current; Anomalous rectifier; Autonomic nervous system; Brainstem slice; Central adrenergic neuron; DiI retrograde transport; Medulla oblongata; Pacemaker neurons; Persistent sodium current; Medulla oblongata; Vasomotor control (Kangrga, I.M. (670) 215)

Autonomic nervous system; Cardiovascular regulation; Corticotrophin releasing factor; Enkephalin; Heart; Lateral hypothalamic area; Medulla oblongata; Neuropeptide Y; Oxytocin; Paraventricular hypothalamic nucleus; Pseudorabies virus; Raphe nuclei; Serotonin; Somatostatin; Stellate ganglion (Jansen, A.S.P. (683) 1)

Pseudorabies virus; Viral envelope glycoprotein (Sams, J.M. (687) 182)

Cardiovascular control; Orthostatic hypotension; Motion sickness; Vomiting; Blood pressure (Yates, B.J. (689) 197)

Fever; Lipopolysaccharide; Rabbit; α_1-Adrenoceptor; α_2-Adrenoceptor subtype; Norepinephrine (Bencsics, A. (705) 302)

Sympathetic neuron
Calcium binding protein; Neuropeptide Y; Immunohistochemistry; Retrograde neuronal tracing; Autonomic nervous system; Chemical coding (Grkovic, I. (684) 127)

Sympathetic preganglionic neuron
Nitric oxide; Superior cervical ganglion; Hypertensive rat (Tang, F.R. (691) 153)

Oxytocin receptor; Spinal cord; Slice; In vitro; Autonomic nervous system; Intracellular recording; Biocytin (Desaulles, E. (699) 139)

Sympathetic regulation
Cerebral glucose; Peripheral hyperinsulinemia; Central nervous system (Doyle, P. (684) 47)

Sympathetic rhythm
γ-Aminobutyric acid; Glycine; Sympathetic activity (Clement, M.E. (696) 258)

Sympathoadrenal system
Depolarization; Neuropeptide Y; Enkephalin; Somatostatin; Plasticity (Maynard-Salgado, G. (676) 268)

Sympathoinhibition
Medulla; Cat; Lateral tegmental field; α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; Kynurenic acid; Baroreflex (Dempesy, C.W. (704) 141)

Synapse
Hair cell; Vestibular; Glutamate; Inner ear; Turtle (Cochran, S.L. (670) 321)

Sympathetic ganglion; Opioid peptide; Opiate receptor; Inhibition (Zhang, C. (683) 59)

Dorsal raphe nucleus; β-Endorphin; Nitric oxide synthase; Immunocytochemistry; Electron microscopy (Wang, Q.-P. (684) 185)

De novo synthesis; Memory; Chicks (Sojka, M. (684) 209)

Substance P; Nucleus tractus solitarius; Paraventricular hypothalamic nucleus; WGA-HRP-colloidal gold; Retrograde tract tracing; Immunohistochemistry; Electron microscopy (Kawano, H. (689) 136)

Baroreceptor; Carotid sinus nerve; Chemoreceptor; Histochemistry; Immunocytochemistry; Transganglionic transport; Ultrastructure (Gatti, P.J. (693) 133)

Adducin; Cell membrane; Cerebellum; Cytoskeleton; Glia; Hippocampus; Monoclonal antibody (Seidel, B. (700) 13)

Synaptotagmin; Vesicle; Neuromuscular junction; Crustacean (Cooper, R.L. (703) 214)

Synapse density
Cerebral ischaemia; Hippocampus; Chick; Disector (Horner, C.H. (703) 245)

Synapses
OX7-saporin; Volkensin; Ultrastructure; Basal ganglia; Ricin (Roberts, R.C. (701) 227)

Synapse shedding
Estrogen; Progesterone; Glia; Plasticity; Synaptogenesis (Klintsova, A. (690) 269)

Synapsin I
Aggregating brain cell culture; Early development; Trimethyltin (TMT); Neurotoxicity; Microglia; Synaptophysin; GAP-43 (Monnet-Tschudi, F. (690) 8)

Synaptic dysfunction
Transfection; Antisense oligonucleotide; Calcium-activated protease; Excitatory amino acid; Excitotoxicity; Neuropathology (Bednarski, E. (694) 147)

Synaptic organization
Hypothalamic paraventricular nucleus; Morphometry; Stress; Vascularity; Wistar rat (Mulders, W.H.A.M. (689) 47)

Synaptic plasma membrane
Cholesterol oxidation; $Ca^{2+} + Mg^{2+}$-ATPase; $Na^+ + K^+$-ATPase; Cholesterol oxidase; Fluidity; Interdigitation (Wood, W.G. (683) 36)

Synaptic plasticity
Posterior cingulate cortex; Subiculum; Long-term potentiation/depression; Electrophysiology, in vitro (Hedberg, T.G. (670) 181)

Associative LTP; CA1 region; Atropine; Acetylcholine; Hippocampus; Rat (Sokolov, M.V. (672) 281)

Electrical stimulation; Prefrontal cortex; Dopaminergic neurons; Sensitization (Tong, Z.-Y. (674) 63)

Long-term potentiation; Neural cell adhesion molecule; NCAM; Hippocampus; CA1 (Rønn, L.C.B. (677) 145)

Protein kinase C isoenzyme; Translocation; Long-term potentiation; Glutamate receptor agonist (Staak, S. (682) 55)

Cerebral ischemia; Ca^{2+}/calmodulin-dependent protein kinase II; Calcineurin; Hippocampus (Onodera, H. (684) 95)

Chick forebrain; Learning; *N*-Methyl-D-aspartate receptor (Bradley, P.M. (699) 103)

Synaptic potential
Cannabinoid; Dentate gyrus; Paired-pulse facilitation; WIN 55,212-2; Perforant path (Kirby, M.T. (688) 114)

Osmotic pressure; Cell swelling; Sodium deficiency; Excitatory postsynaptic potential; Spreading depression; Seizure (Chebabo, S.R. (695) 203)

Nucleus of the solitary tract; Brain slice; Patch clamp; Taste; Glutamate; γ-Aminobutyric acid; Neuron reconstruction (Wang, L. (702) 188)

Synaptic response
Accessory olfactory bulb; Extracellular single unit recording; Glutamate antagonist; Mitral cell (Dudley, C.A. (675) 208)

Synaptic transmission
Glutamate; Tetrodotoxin; Excitotoxicity; γ-Aminobutyric acid; *N*-Methyl-D-aspartate (Yoon, K.-W. (669) 320)

Glucose; Lactate; Hippocampus; Anoxia; Hypoxia; Ion transport; Brain slice (Roberts, Jr., E.L. (678) 83)

Transmitter release; Presynaptic Ca^{2+}-channel; Ca^{2+}-channel toxin; Presynaptic block; Motoneuron terminal; Electrocyte; Electric fish (Sierra, F. (683) 215)

(1*S*,3*R*)-1,3-Aminocyclopentane-3-dicarboxylic acid; Metabotropic glutamate receptor; *N*-Methyl-D-aspartate; LTP; Hippocampus; CA1–CA3 (Collins, D.R. (684) 165)

Hippocampus; Potassium; Calcium; Magnesium; pH; Temperature; Hibernation (Igelmund, P. (689) 9)

Glial cell; Depolarization; K^+ concentration; Population spike; Schaffer collateral (Leung, L.S. (697) 262)

Osmotic effect; Cell volume; Interstitial space; Tissue resistance; Hypertonia; Spreading depression; Water deprivation (Huang, R. (702) 181)

Synaptic vesicle
Lateral cervical nucleus; Ventral posterolateral nucleus; Amino acid; Immunogold; Somatosensory (Kechagias, S. (675) 316)

Synaptotagmin II; Immunolabelling; Quantal release; Lanthanum; α-Latrotoxin; Mouse neuromuscular junction (Angaut-Petit, D. (681) 213)

Dopamine; Parkinson's disease; Substantia nigra; Human (Thibaut, F. (692) 233)

Acetylcholine release; Vesamicol; 4-Aminobenzovesamicol; (*trans*)-Cyclohexovesamicol; Vesicular transport (Leão, R.M. (703) 86)

Synaptic vesicle exocytosis
Acetylcholine release; Clostridial neurotoxin; Synaptosome; *Torpedo*; Neuromuscular junction; Miniature end plate current; VAMP/synaptobrevin (Herreros, J. (699) 165)

Synaptic vesicle recycling
δ-Opioid receptor; Reinforcement; Excitatory synapse; Presynaptic release (Svingos, A.L. (700) 25)

Synaptogenesis
Estrogen; Progesterone; Glia; Plasticity; Synapse shedding (Klintsova, A. (690) 269)

Synaptoneurosome
Glutamate; Phospholipase; Receptor; Plasticity (Bernard, J. (671) 195)

Synaptophysin
Tau; Dentate gyrus; Mitogen-activated protein; Phosphorylation; CA1 (Torack, R.M. (669) 135)

NADPH diaphorase; Nitric oxide; SNAP-25; Cerebellum; Modular organization; Monkey (Yan, X.X. (669) 285)

Aggregating brain cell culture; Early development; Trimethyltin (TMT); Neurotoxicity; Microglia; Synapsin I; GAP-43 (Monnet-Tschudi, F. (690) 8)

Synaptosome
Thiopental; Halothane; Isoflurane; γ-Aminobutyric acid release; Depolarization; Calcium channel (Lecharny, J.-B. (670) 308)

Brain ageing; Glutamate; Aspartate; Glucose (Martínez, M. (673) 149)

HIV-1; gp120; Calcium; Glutamate; Dantrolene; Calcium channel blocker (Nath, A. (678) 200)

Atrial natriuretic peptide; Olfactory bulb; Receptor (Haver, E. (681) 75)

4-Aminopyridine; Release of radiolabelled neurotransmitters; Ca^{2+}; Brain region; Slice (Versteeg, D.H.G. (686) 233)

Acetylcholine release; Synaptic vesicle exocytosis; Clostridial neurotoxin; *Torpedo*; Neuromuscular junction; Miniature end plate current; VAMP/synaptobrevin (Herreros, J. (699) 165)

Synaptotagmin
Vesicle; Synapse; Neuromuscular junction; Crustacean (Cooper, R.L. (703) 214)

Synaptotagmin II
Synaptic vesicle; Immunolabelling; Quantal release; Lanthanum; α-Latrotoxin; Mouse neuromuscular junction (Angaut-Petit, D. (681) 213)

Synchronization
Circadian rhythm; Suprachiasmatic nucleus; Biological clock; Electrophysiology (Bouskila, Y. (670) 333)

Syndactyly
Area 3b; Squirrel monkey; Correlated activity; Dynamic maintenance (Garraghty, P.E. (686) 119)

Synergism
Immediate-early gene; c-*fos*; D_1 receptor; D_2 receptor; Globus pallidus; Subthalamic nucleus; SKF 38393; Quinpirole (Ruskin, D.N. (703) 156)

Synergy
Calcium channel; Diltiazem; Hypoxia; MK-801; Neuroprotection (Schurr, A. (684) 233)

Synovium
Substance P; Preprotachykinin mRNA; Dorsal root ganglia; Monoarthritis; Rat (Garrett, N.E. (675) 203)

Synthetic peptide
Aβ; Amyloid; Alzheimer's disease; Antibody; Conformation (Kametani, F. (703) 237)

Systemic brain cooling
Selective brain cooling; Posture; Vasoconstrictor sympathetic outflow; Ultradian wake–sleep cycle (Azzaroni, A. (671) 78)

Systemic hemodynamics
Endothelin-1; BQ-123, Cyclo (-D-Trp-D-Asp-Pro-D-Val-Leu-); Regional vascular resistance; IRL 1620, N-Suc-(Glu^{9},Ala^{11,15})ET-1(8-21); Regional blood flow; Sprague–Dawley rat; Central nervous system (Rebello, S. (676) 141)

Systemic injection
3-Nitropropionic acid; Huntington's disease; Progressive spontaneous locomotor activity changes; Striatum (Borlongan, C.V. (697) 254)

T

Tachykinin
Substance P; SP-Fragment; Central cardiovascular control; Behavior; Tachykinin receptor; Central nervous system (Tschöpe, C. (690) 15)

Dopamine; D_1 receptor; Grooming; Substantia nigra (Stoessl, A.J. (700) 115)

Tachykinin receptor
Tachykinin; Substance P; SP-Fragment; Central cardiovascular control; Behavior; Central nervous system (Tschöpe, C. (690) 15)

Taeniopygia guttata
Song control nucleus; Male sexual behavior; Immunocytochemistry; Volume reconstruction; Zebra finch (Ball, G.F. (699) 83)

Tail-flick
Naloxone; Aminophylline; 5′-*N*-Ethylcarboxamidoadenosine; Morphine; Serotonin; Norepinephrine; Antinociception; Analgesia (Yang, S.-w. (673) 170)

Tail flick
Dextrorphan; Morphine antinociception; Spinal rat (Advokat, C. (699) 157)

Tail-flick latency
Tolerance, opioid; Nociception; Inflammation, chronic; Analgesia; Stress-induced analgesia; Complete Freund's adjuvant; Pain, chronic (Gutstein, H.B. (680) 173)

Tail flick reflex
Thalamic nucleus submedius; Ventrolateral orbital cortex; Periaqueductal gray; Descending modulation; Rat (Zhang, Y.-Q. (696) 205)

Tail-flick test
Nociception; Antinociception; Substance P; Naloxone; Opioid; Capsaicin; Spinal cord; Primary afferent; C-fiber; CP-96,345; CP-96,344; CP-99,994 (Yashpal, K. (674) 97)

Tail-pinch
Microdialysis; Noradrenaline; Paraventricular nucleus; Restraint; Desensitization; Stress; Adaptation (Shibasaki, T. (670) 169)

Locus coeruleus; Push–pull superfusion; Glutamate release; Aspartate release; GABA release; Immobilization stress; Blood pressure (Singewald, N. (704) 42)

T antigen
Cell line; Septum; Mouse trisomy 16; Down syndrome; Alzheimer's disease; Nerve growth factor (Kim, J.-H. (671) 299)

Tardive dyskinesia
Antipsychotic drug; Glutamate; Taurine; Neuroleptic; Striatum (Lidsky, T.I. (686) 104)

Task complexity
Vision; Hoffmann reflex gain (Hoffman, M.A. (700) 303)

Taste
Acetylcholine; Microdialysis; Insular cortex; Quinine; Taste aversion; Rat (Shimura, T. (679) 221)

Rat; Chorda tympani; Licking; Mechanical stimulation; Saliva; Conduction velocity (Matsuo, R. (689) 289)

Reinnervation; Nerve repair; Lingual nerve; Chorda tympani; Tongue; Salivary gland (Smith, K.G. (691) 142)

Nucleus of the solitary tract; Brain slice; Patch clamp; Synaptic potential; Glutamate; γ-Aminobutyric acid; Neuron reconstruction (Wang, L. (702) 188)

Taste aversion
Taste; Acetylcholine; Microdialysis; Insular cortex; Quinine; Rat (Shimura, T. (679) 221)

Taste response
Salt; Glossopharyngeal nerve; Cation-induced response; Receptor for cation; Anion modulation; Lyotropic series; Frog (Kitada, Y. (694) 253)

Tau
Synaptophysin; Dentate gyrus; Mitogen-activated protein; Phosphorylation; CA1 (Torack, R.M. (669) 135)

Aluminum; Neurodegeneration; Rabbit (Savory, J. (669) 325)

Alcoholism; Alcohol, ethyl; Excitatory amino acid receptor; Receptor, glutamate; Receptor, AMPA; Receptor, kainate; Schizophrenia; Human postmortem tissue; NCAM; Western blotting; Immunoreactivity (Breese, C.R. (674) 82)

Focal cerebral ischaemia; Rat; Cytoskeleton; Axon; Glia (Dewar, D. (684) 70)

Tau phosphorylation
Alzheimer's disease; Sodium butyrate; Neurotoxicity (Nuydens, R. (688) 86)

Tau protein
Alz 50 antibody; Paired helical filament; Tau synthetic peptide; ELISA (Ksiezak-Reding, H. (697) 63)

Taurine
Chelerythrine; Kinase inhibitor; Retina; Protein phosphorylation (Lombardini, J.B. (673) 194)

Organ of Corti; Rat; Guinea pig; Immunocytochemistry (Usami, S.-i. (676) 277)

Potassium; Ouabain; Cell swelling (Olson, J.E. (682) 197)

Antipsychotic drug; Glutamate; Neuroleptic; Tardive dyskinesia; Striatum (Lidsky, T.I. (686) 104)

Blood–brain barrier; Transport; Brain perfusion technique; Permeability; Endothelial cell (Benrabh, H. (692) 57)

Cerebral cell volume regulation; Development; Hypernatremia; Organic osmolyte (Trachtman, H. (693) 155)

Tau synthetic peptide
Alz 50 antibody; Paired helical filament; Tau protein; ELISA (Ksiezak-Reding, H. (697) 63)

Taxol
Nerve; Protein transport; Cold block; Transport reversal; Microtubule (Smith, R.S. (672) 205)

Alzheimer's disease; Calcium; Colchicine; Excitototoxicity; Fura-2; Glutamate; Microtubule (Furukawa, K. (689) 141)

TBARS
Aging; α-Tocopherol; Antioxidant; Ascorbate; Cognition; Free radical; Phenyl-α-*tert*-butylnitrone (Socci, D.J. (693) 88)

Teleost
Calbindin D-28k; Calcium-binding protein; Calretinin; Optic tectum (Arévalo, R. (671) 112)

Rhythm; Retina; Cell proliferation; Circadian (Chiu, J.F. (673) 119)

Temperature
Adaptation; Cold receptor; Menthol; Electrophysiological recording; Trigeminal nerve (Lundy Jr., R.F. (676) 169)

REM sleep; PACAP; Sleep; Rat; EEG (Fang, J. (686) 23)

Melatonin; Alertness; Performance; Sleep; Circadian rhythm; Phase-shifting (Deacon, S. (688) 77)

Hippocampus; Synaptic transmission; Potassium; Calcium; Magnesium; pH; Hibernation (Igelmund, P. (689) 9)

Spatial navigation; *N*-Methyl-D-aspartate antagonist; Ischemia; Behavior (Green, E.J. (702) 145)

Ascorbic acid; Free radical; Glutathione; Ischemia; Turtle; Rat; Metabolism (Pérez-Pinzón, M.A. (705) 45)

Temporal
Lateral hypothalamus; Self-stimulation; Parietal; Brain metabolism (Harley, C.W. (685) 217)

Temporal cortex
S100β, synaptophysin; Hippocampus; Temporal pole; Parietal cortex; Hypothalamus; Morphometry; Immunocytochemistry; Serotonin (Azmitia, E.C. (677) 181)

γ-Aminobutyric acid; Calretinin; Interneuron; Double bouquet cell; Calcium-binding protein; Alzheimer's disease (Fonseca, M. (691) 83)

Temporal pole
S100β, synaptophysin; Hippocampus; Temporal cortex; Parietal cortex; Hypothalamus; Morphometry; Immunocytochemistry; Serotonin (Azmitia, E.C. (677) 181)

Tendon organ
Muscle receptor; Ib afferent; Motor unit; Contractile force; Muscle contraction (Davies, P. (690) 82)

Ib afferent; Motor unit; Nerve regeneration; Reinnervation; Transduction (Scott, J.J.A. (697) 225)

Teratogenesis
Foetal alcohol syndrome; Horseradish peroxidase; Axon terminals; Sensorimotor cortex (Santarelli, M. (698) 241)

Terminal 5-HT autoreceptor
Citalopram; Chronic treatment; Dorsal hippocampus; Microdialysis; Serotonin; 5-HT_{1A} receptor (Invernizzi, R. (696) 62)

Testes
Photoperiodism; *N*-Methyl-D-aspartate; Testosterone (Raitiere, M.N. (705) 159)

Testosterone
Steroid receptor; Steroid abuse; Athlete; Hypothalamus; Castration; Immunocytochemistry; Optical density; Opioid peptide (Menard, C.S. (669) 255)

Vasopressin; Hamster; Autoradiography; Medial preoptic area; Anterior hypothalamus; Flank marking (Johnson, A.E. (674) 153)

Methandrostenolone; Anabolic steroid; Morris water maze; Hippocampus; Corticosterone; Memory (Clark, A.S. (679) 64)

Androgen; Castration; CA1; Hippocampus; MK801; *N*-Methyl-D-aspartate; Autoradiography (Kus, L. (683) 270)

Levator ani; Bulbocavernosus; Ischiocavernosus; Steroid (Freeman, L.M. (690) 1)

Sex difference; EEG; Prenatal treatment; Interhemispheric correlation; Spectral power (Juárez, J. (694) 21)

PG-21; Immunohistochemistry; SNB; Steroid; Spinal cord (Lubischer, J.L. (694) 61)

Photoperiod; Sexual maturation; Brain metabolism; 2-DG; Sensory system; Quail (Teruyama, R. (697) 169)

Aging; Caudate putamen; Olfactory tubercle; Oxytocin receptor; Rat brain; Ventromedial hypothalamic nucleus (Arsenijevic, Y. (698) 275)

Photoperiodism; *N*-Methyl-D-aspartate; Testes (Raitiere, M.N. (705) 159)

Tetanus toxin
5-HT; DA; Microdialysis (Britton, P. (673) 331)

Epilepsy; Seizure; Hippocampus; Electroencephalography; Slice, in vitro (Lee, C.L. (677) 97)

Tetracaine
Long-term potentiation; Hippocampus; Basolateral amygdala; Neuron activity (Ikegaya, Y. (671) 351)

Tetraethylammonium
Coeliac-superior mesenteric ganglia; Whole-cell patch-clamp; Perforated patch; M-Current; A-Current; Ca^{2+}-activated K^+ current; Delayed rectifier K^+ current; 4-Aminopyridine; Muscarinic agonist (Carrier, G.O. (701) 1)

Tetrahydrocannabinol
Cannabinoid; Opioid; Analgesia; Withdrawal; Perinatal; Behavior (Vela, G. (680) 142)

Δ^9-Tetrahydrocannabinol
Anandamide (arachidonylethanolamide); Cannabinoid receptor; Dopamine; Nigrostriatal dopaminergic neuron; Motor activity; Stereotypic behavior (Romero, J. (694) 223)

Tetraploidy
GAP-43; Neuromodulin; B-50; *Xenopus laevis*; Expression; Phylogeny (Shain, D.H. (697) 241)

Tetrodotoxin
Glutamate; Excitotoxicity; Synaptic transmission; γ-Aminobutyric acid; *N*-Methyl-D-aspartate (Yoon, K.-W. (669) 320)

Slow depolarizing after-potential; Epileptiform activity; Seizure-like activity; Kynurenic acid; Cocaine; Veratridine (Tian, L.-M. (680) 164)

Ion channel; Patch clamp; Glomus; Chemoreceptor; Acclimatization; Oxygen (Hempleman, S.C. (699) 42)

Adenosine; Hypercapnia; Hypoxia; *N*-Methyl-D-aspartate; Nitric oxide; Pial arteriole (Pelligrino, D.A. (704) 61)

Thalamic
Adenovirus; Gene transfer; Cortical; Organotypic cocultures and development (Wilkemeyer, M.F. (703) 129)

Thalamic axon
Barrel; Development; AChE (Bennett-Clarke, C.A. (702) 255)

Thalamic commissural projection
Thalamus; Reticular thalamic nucleus; Parafascicular thalamic nucleus; Intralaminar thalamic nucleus; Retrograde cell labeling; Multi-unit anterograde labeling (Hazrati, L.-N. (679) 123)

Thalamic inhibition
Thalamic reticular nucleus; Dorsal lateral geniculate nucleus; Lateral dorsal nucleus; Lateral posterior nucleus (Pinault, D. (670) 147)

Thalamic nucleus submedius
Ventrolateral orbital cortex; Periaqueductal gray; Descending modulation; Tail flick reflex; Rat (Zhang, Y.-Q. (696) 205)

Thalamic reticular nucleus
Dorsal lateral geniculate nucleus; Lateral dorsal nucleus; Lateral posterior nucleus; Thalamic inhibition (Pinault, D. (670) 147)

Ischemia; Cardiac arrest; Neuroprotection; α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionate antagonist (Ross, D.T. (683) 117)

Thalamostriatal fiber
CM/Pf complex; Central lateral nucleus; Posterior thalamic group; Striatal matrix; Ethmoid nucleus (Deschênes, M. (701) 288)

Thalamus
Prefrontal cortex; Anterograde degeneration; Horseradish peroxidase (Kuroda, M. (677) 348)

Reticular thalamic nucleus; Thalamic commissural projection; Parafascicular thalamic nucleus; Intralaminar thalamic nucleus; Retrograde cell labeling; Multi-unit anterograde labeling (Hazrati, L.-N. (679) 123)

Picrotoxin; Convulsion; Fos; Immunohistochemistry; Cortex; Caudate-putamen; Hippocampus; Rat (Willoughby, J.O. (683) 73)

Parafascicular nucleus; Raphe system; Biocytin; Dextran amine; Motor control; Rat (Marini, G. (690) 177)

Brain mapping; Hypothalamus; Paraventricular nucleus; Microinjection; Nociception; Anorexia; Fever (Sellami, S. (694) 69)

Transplantation; Striatum; Astrocyte; Glial fibrillary acidic protein; Migration; Ventral mesencephalon (Pundt, L.L. (695) 25)

Viscera; Reproductive organ; Nociception; Pain (Berkley, K.J. (695) 92)

Anterior pretectal nucleus; Pretectum; Diencephalon; Mesencephalon; Antinociception; *Phaseolus vulgaris* leucoagglutinin (Terenzi, M.G. (701) 183)

Vestibular nucleus; Wheat germ agglutinin-horseradish peroxidase; *Phaseolus vulgaris* leucoagglutinin (Shiroyama, T. (704) 130)

Thalamus temperature sensitive
Thermoregulation; Nucleus reuniens; Hypothalamus; Electrophysiology, in vitro (Travis, K.A. (686) 17)

Thapsigargin
Cerebellar granule neuron; Apoptosis; Cell survival; Calcium (Levick, V. (676) 325)

Morphine tolerance; L-type calcium channel; Antinociception; Dihydropyridine; Spinal cord; Brainstem; Striatum (Bernstein, M.A. (696) 83)

Δ^9-THC
Antisense oligodeoxynucleotide; Antinociception; κ-1 Opioid (Pugh, Jr., G. (689) 157)

Tolerance; Anandamide; Cannabinoid; Cannabinoid receptor; G_i protein; G_s protein (Fride, E. (697) 83)

Therapeutics
Behavior; Saturable transport; Pharmacokinetics; Mouse (Banks, W.A. (695) 59)

Thermal hyperalgesia
Nerve growth factor; Neuropathic pain; Osmotic pump; Mechanical allodynia; Rat (Ren, K. (699) 286)

Thermal nociception
Single cell recording; Descending inhibition; Microiontophoresis; Monoamine; α-Adrenoreceptor; Caudal trigeminal nucleus; Medullary dorsal horn (Cahusac, P.M.B. (700) 70)

Thermodynamics
α_2-Adrenoceptor; Hypothalamus; Estradiol; Signal transduction; Receptor binding; RX821002; Oxymetazoline (Karkanias, G.B. (674) 26)

Thermoregulation
Nucleus reuniens; Hypothalamus; Electrophysiology, in vitro; Thalamus temperature sensitive (Travis, K.A. (686) 17)

Brown adipose tissue; Non-shivering thermogenesis; Decerebration; Neonate; Hypothalamus (Blumberg, M.S. (699) 214)

Sleep deprivation; Preoptic/anterior hypothalamus (Feng, P.-F. (703) 93)

Thermosensitivity
Preoptic area; Anterior hypothalamus; Basal forebrain; Sleep–wake regulation; Non-REM sleep (Alam, Md.N. (696) 221)

Theta
Optical Imaging; State; EEG; RSA; Cell swelling; Cat (Rector, D.M. (696) 151)

Theta-frequency primed burst
Long-term potentiation; Current source density; APV; Inhibitory interneuron; CA3 (Roth, L.R. (694) 40)

Theta rhythm
Hypothalamic locomotor region; Hippocampus; Locomotion (Sławińska, U. (678) 117)

Field IPSP; $GABA_A$ receptor; Long-term potentiation; Feedforward inhibition; Feedback inhibition; Laminar profile; Long-term depression; LTP; LTD (Arai, A. (704) 298)

Theta wave
Sleep–waking cycle; Acetylcholine; Microdialysis; Electroencephalogram; Hippocampus; Cat (Marrosu, F. (671) 329)

Thiamine deficiency
Alzheimer's disease; β-Amyloid precursor protein; Immunocytochemistry; Neurodegeneration; Wernicke–Korsakoff syndrome (Calingasan, N.Y. (677) 50)

Substance P; Microphotometry; Antinociceptive effect; Immunohistochemical estimation; Spinal cord (Tadano, T. (696) 21)

Thienyl-phencyclidine
Freezing technique; Culture; Neuron-specific enolase; γ-Aminobutyric acid; Computer microscope; Principal component analysis (Petite, D. (669) 263)

Thioacetamide
Hepatic encephalopathy; Ammonia; Peripheral benzodiazepine receptor; Pregnenolone; Neurosteroid (Itzhak, Y. (705) 345)

Thiopental
Halothane; Isoflurane; Synaptosome; γ-Aminobutyric acid release; Depolarization; Calcium channel (Lecharny, J.-B. (670) 308)

Thioridazine
Haloperidol; Chlorpromazine; Raclopride; Risperidone; Clozapine; Ritanserin; Fos; Forebrain; Immunohistochemistry (Wan, W. (688) 95)

Thirst
Lateral parabrachial nucleus; Angiotensin II; Water intake; Arterial pressure; Local anesthetic (Menani, J.V. (695) 250)

Threshold
Cerebral infarction; Selective neuronal necrosis; Transition; Repeated ischemia; Gerbil (Hanyu, S. (686) 44)

Bandwidth; Guinea pig; Mapping; Receptive field; Tuning (South, D.A. (704) 275)

Thrombin
Neuritogenesis; Hippocampal neuron; Sprouting; Serum-free (Brewer, G.J. (683) 258)

Thrombosis
Functional reorganization; Somatosensory cortex; Recovery of function; T-maze; Sensorimotor deficit (Pazos, A.J. (689) 224)

Thromboxane A_2
Cerebral ischemia; Hippocampus; Microdialysis; Platelet activating factor (Pettigrew, L.C. (691) 243)

Thymidine kinase
Adenovirus; Gene therapy; Herpes simplex virus; Spinal cord tumor (Çolak, A. (691) 76)

Thyroid hormone
Enkephalin mRNA; Dynorphin mRNA; Hippocampus; Kainic acid; Hybridization, in situ; Rat (Giardino, L. (687) 83)

Thyroid hormone receptor
Hippocampus; Aging; Glucocorticoid receptor; Androgen receptor; Estrogen receptor; Hybridization, in situ histochemistry (Tohgi, H. (700) 245)

Thyrotropin releasing hormone
Pyroglutamyl peptidase II; Kindling; Ectopeptidase; Neuropeptide (De Gortari, P. (679) 144)

Intracerebroventricular; Pituitary adenylate cyclase-activating polypeptide; Vasoactive intestinal polypeptide; Spontaneous motor activity; Rearing behavior; Reserpine; Hypothermia (Masuo, Y. (700) 219)

Thyrotropin-releasing hormone (TRH)
2-Deoxy-D-glucose; Central nervous system; Gastric emptying; Vagotomy; Pancreatic polypeptide (Okumura, T. (674) 137)

Tianeptine
Serotonin; 5-Hydroxytryptamine; Norepinephrine; Antidepressant (Frankfurt, M. (696) 1)

Tight junction
Blood–brain barrier; Endothelium; Microvessel; CNS inflammation (Biegel, D. (692) 183)

RMP-7; Bradykinin analog; Blood–brain barrier; Permeability; Lanthanum; Hypotension (Sanovich, E. (705) 125)

Time course
Morphine; c-Fos; Nociception; Spinal cord (Honoré, P. (705) 91)

Timm stain
Epilepsy; Human; Neuropathology; Hilus (Masukawa, L.M. (678) 65)

Timm staining
Ectopia; Hippocampus; Weaver mouse (Sekiguchi, M. (696) 262)

Tissue culture
Hippocampal neuron; Dendritic growth; Mathematical model (Uemura, E. (671) 187)

Smooth muscle cell; β-Protein; β-Amyloid; β-Amyloid precursor protein (Frackowiak, J. (676) 225)

Hippocampus; Neurofilament; Development; Neural grafting; Immunocytochemistry (Shetty, A.K. (676) 293)

Retinal pigment epithelium; Development; Transdifferentiation; Growth factor; bFGF; Neural retina (Zhao, S. (677) 300)

Dopamine; Differentiation; Growth factor; Tyrosine hydroxylase; Gene activation (Du, X. (680) 229)

Neuron; Glial; NADPH diaphorase; Nitric oxide synthase; Survival (Page, G.K. (697) 157)

Smooth muscle cell; β-Protein; ApoE3/E4; Transthyretin (Mazur-Kolecka, B. (698) 217)

Olfactory epithelium; Olfactory neuron; Trauma-induced regeneration; $ZnSO_4$; Olfactory marker protein; Chemical trauma; Differentiation (Sosnowski, J.S. (702) 37)

Tissue-culture
γ-Aminobutyric acid; Glycine; Hippocampus; Post-natal; Whole-cell current; Single-channel current (Fatima-Shad, K. (704) 246)

Tissue resistance
Osmotic effect; Cell volume; Interstitial space; Hypertonia; Spreading depression; Synaptic transmission; Water deprivation (Huang, R. (702) 181)

Tissue-specific
Hydroxyindole-*O*-methyltransferase; Melatonin; Pineal; Retina; Y79 retinoblastoma (Bernard, M. (696) 37)

T-maze
Functional reorganization; Somatosensory cortex; Thrombosis; Recovery of function; Sensorimotor deficit (Pazos, A.J. (689) 224)

α-Tocopherol
Long-term potentiation; Hippocampal slice; CA1 neuron; Excitatory post-synaptic potential; Vitamin E-deficiency (Xie, Z. (681) 193)

Aging; Antioxidant; Ascorbate; Cognition; Free radical; Phenyl-α-*tert*-butylnitrone; TBARS (Socci, D.J. (693) 88)

Tolerance
Hypoxia/hypoglycemia; Ethanol; 2-Deoxyglucose; Chronic treatment; Withdrawal syndrome (Shibata, S. (673) 320)

Benzodiazepine; Dependence; Cyclic AMP; Morphine (Sheu, M.-J. (675) 31)

Protein kinase C gamma; Morphine; Immunocytochemistry; Spinal cord; Analgesia (Mao, J. (677) 257)

Desensitization; Dentate gyrus; Opioid; Mu receptor; [D-Ala^2,NMe-Phe^4,Gly-ol]-Enkephalin; DAMGO; Interneuron (Mayer, J.H. (686) 134)

Anandamide; Δ^9-THC; Cannabinoid; Cannabinoid receptor; G_i protein; G_s protein (Fride, E. (697) 83)

Dynorphin; Enkephalin; Morphine; Naltrexone; Striatum; Caudate-putamen; Nucleus accumbens-olfactory tubercle; Dependence (Trujillo, K.A. (698) 69)

Tolerance, opioid
Nociception; Inflammation, chronic; Analgesia; Stress-induced analgesia; Tail-flick latency; Complete Freund's adjuvant; Pain, chronic (Gutstein, H.B. (680) 173)

Tomato lectin
Fish; Microglia; Regeneration; Visual pathway (Velasco, A. (705) 315)

Tongue
Reinnervation; Nerve repair; Lingual nerve; Chorda tympani; Taste; Salivary gland (Smith, K.G. (691) 142)

Tonotopic organization
Primary auditory cortex; Monkey; Current source density; Multiunit activity; Speech; Place of articulation (Steinschneider, M. (674) 147)

Tooth pulp
Parvalbumin; Calretinin; Trigeminal ganglion; Rat (Ichikawa, H. (679) 205)

Torpedo
Acetylcholine release; Synaptic vesicle exocytosis; Clostridial neurotoxin; Synaptosome; Neuromuscular junction; Miniature end plate current; VAMP/synaptobrevin (Herreros, J. (699) 165)

***Torpedo* electroplaque**
Rat neuromuscular junction; Miniature endplate current; Veratridine; Vesamicol; Cholinergic synaptic vesicle (Pemberton, K.E. (671) 267)

Torpor
Brain temperature; Djungarian hamster; Electroencephalogram; Hypothermia; Spectral analysis (Deboer, T. (670) 153)

Toxic insult
Microvillar cell; Methyl bromide; Nickel regeneration; Olfactory epithelium; Electron microscopy (Miller, M.L. (669) 1)

Toxicity
Activity; Behavior; Cadmium; Cocaine; Sensitization (Nation, J.R. (702) 223)

Aminoglycoside; Hair cell; Endocytosis; Immuno-gold; Cationic ferritin; Chicken (Hashino, E. (704) 135)

Toxic metal
Retrograde axonal transport; Albumin; Transferrin; Transferrin receptor; Lysosome; Motor neuron; Ultrastructure; Amyotrophic lateral sclerosis; Rat (Moos, T. (672) 14)

TPEN
Excitability; Dentate gyrus; CA1 pyramidal neuron; Inhibition (Gordey, M. (691) 125)

γ-Trace protein
Cysteine protease inhibitor; Choroid plexus; Cerebrospinal fluid; Delayed neuronal death; CA1 (Palm, D.E. (691) 1)

Tract tracing
Cholera toxin; Axonal transport; Inferior olive; Climbing fiber (Chen, S. (674) 107)

Cardiovascular; Baroreceptor; Blood pressure; Ultrastructure (Aicher, S.A. (693) 51)

Calretinin; Retrograde labelling; Immunohistochemistry; Calcium binding protein; Nigrostriatal pathway (Krzywkowski, P. (705) 273)

Tractus solitarius
Serotonin 5-HT_2 receptors; Serotonin 5-HT_3 receptors; Supersensitivity; Nucleus; Blood pressure; Hypertensive rat (Merahi, N. (669) 130)

Transblot, in situ
Connexin-43; Astrocyte; Gap junction; Immunohistochemistry; Kainic acid; *N*-Methyl-D-aspartate (Sawchuk, M.A. (683) 153)

Transcranial Doppler ultrasonography
Electroconvulsive therapy; Near-infrared spectrophotometry; Cytochrome *aa3* (Saito, S. (673) 93)

Transcription
B-50/GAP-43; Promoter; Translation; Polyribosome (Eggen, B.J.L. (690) 73)

Transcription factor
c-*fos*; Immediate-early gene; Visual system (Montero, V.M. (690) 189)

2-Deoxyglucose; Development; Egr-1; Immediate–early gene; Immunohistochemistry; Learning; Odor exposure; Olfactory preference (Johnson, B.A. (699) 192)

Transcription initiation site
μ Opioid receptor; Genomic DNA; Promoter (Liang, Y. (679) 82)

Transcription, NF-Y
Tryptophan hydroxylase; Serotonin; Neural gene (Reed, G.E. (682) 1)

Transcytosis
Receptor; Monoclonal antibody (Skarlatos, S. (683) 164)

Transdifferentiation
Retinal pigment epithelium; Development; Growth factor; bFGF; Tissue culture; Neural retina (Zhao, S. (677) 300)

Transduction
Olfactory receptor neuron; Whole cell patch clamp; Olfaction; Mixture; Interaction; Spiny lobster; Crustacean; Binding (Simon, T.W. (678) 213)

Tendon organ; Ib afferent; Motor unit; Nerve regeneration; Reinnervation (Scott, J.J.A. (697) 225)

Transection
rhNGF; rhbFGF; Dose–response; Cholinergic degeneration; Neurotrophic factor; Fimbria-fornix; Hippocampus (Emmett, C.J. (673) 199)

Olfactory nerve; Pigeon; Horseradish peroxidase; Reinnervation; Quantitative image analysis; Olfactory bulb (Jennings, R.A. (683) 159)

Transfection
Antisense oligonucleotide; Calcium-activated protease; Excitatory amino acid; Synaptic dysfunction; Excitotoxicity; Neuropathology (Bednarski, E. (694) 147)

OBCAM; Opioid receptor; Immunofluoresence (Lane, C.M. (698) 15)

Transferrin
Retrograde axonal transport; Albumin; Transferrin receptor; Lysosome; Motor neuron; Ultrastructure; Toxic metal; Amyotrophic lateral sclerosis; Rat (Moos, T. (672) 14)

Transferrin binding protein
Avian brain; Oligodendrocyte; Immunocytochemistry (Cho, S.S. (674) 15)

Transferrin receptor
Retrograde axonal transport; Albumin; Transferrin; Lysosome; Motor neuron; Ultrastructure; Toxic metal; Amyotrophic lateral sclerosis; Rat (Moos, T. (672) 14)

Transforming growth factor-α
Epidermal growth factor; Nervous system; Development; Subventricular zone; Cerebellum; Hybridization, in situ (Seroogy, K.B. (670) 157)

Transganglionic transport
Baroreceptor; Carotid sinus nerve; Chemoreceptor; Histochemistry; Immunocytochemistry; Synapse; Ultrastructure (Gatti, P.J. (693) 133)

Transgenic mice
Familial amyotrophic lateral sclerosis; Cu.Zn superoxide dysmutase (SOD); Motor neuron; Spinal cord; Brainstem; Peripheral nerve (Dal Canto, M.C. (676) 25)

Methamphetamine; Free radical; Serotonin uptake site; Superoxide dismutase (Hirata, H. (677) 345)

S100β protein; β-Amyloid protein (Yao, J. (702) 32)

Transient
ICAM-1 expression; Middle cerebral artery (Zhang, R.-L. (682) 182)

Transient focal ischemia
Cerebral blood flow; Penumbra; Middle cerebral artery occlusion; Autoradiography; Rat (Takagi, K. (691) 160)

Transient forebrain ischemia
Heat-shock protein; Parvalbumin; Delayed cell death; Gerbil (Ferrer, I. (692) 41)

Transient global ischemia
Amyloid protein precursor; Gerbil; Axonal transport; Immunoelectron microscopy; Multivesicular body (Tomimoto, H. (672) 187)

Transition
Cerebral infarction; Selective neuronal necrosis; Threshold; Repeated ischemia; Gerbil (Hanyu, S. (686) 44)

Translation
B-50/GAP-43; Promoter; Transcription; Polyribosome (Eggen, B.J.L. (690) 73)

Translocation
Protein kinase C isoenzyme; Synaptic plasticity; Long-term potentiation; Glutamate receptor agonist (Staak, S. (682) 55)

Nitric oxide synthase; Human cerebral artery; Endothelium; Ultrastructural localization; Bradykinin (Fukuda, S.-i. (696) 30)

Transmission
Vasopressin; Vasopressin(4–8); Hippocampus; Potentiation; Excitability (Chepkova, A.N. (701) 255)

Transmitter release
Synaptic transmission; Presynaptic Ca^{2+}-channel; Ca^{2+}-channel toxin; Presynaptic block; Motoneuron terminal; Electrocyte; Electric fish (Sierra, F. (683) 215)

Metabotropic glutamate receptor; Presynaptic inhibition; Presynaptic calcium; Potassium channel; Hippocampus (Yoshino, M. (695) 179)

Transneuronal cell death
Deafferentation; c-*fos*; Subthalamic nucleus; Substantia nigra pars reticulata; Non-NMDA receptor (Saji, M. (703) 165)

Transplantation
Spinal cord; Noradrenaline; Quantitative autoradiography; α_1-Adrenoceptor; [^{3}H]Prazosin (Roudet, C. (677) 1)

Suprachiasmatic; Aging; Circadian; Neural graft; Hamster (Viswanathan, N. (686) 10)

Striatum; Astrocyte; Glial fibrillary acidic protein; Migration; Thalamus; Ventral mesencephalon (Pundt, L.L. (695) 25)

c-*fos* gene; Metallothionein promoter; Exogenous control; NRK cell; Nf-1 cell; Angiogenesis; Neovascularization; Gene therapy (Asakuno, K. (702) 23)

Transplatin
Cisplatin; Ototoxicity; Cochlear outer hair cell; Whole-cell patch-clamp; Voltage-dependent calcium channel; Compound action potential (Saito, T. (697) 276)

Transport
Blood–brain barrier; Taurine; Brain perfusion technique; Permeability; Endothelial cell (Benrabh, H. (692) 57)

Hypothermia; Injury; Microtubule; Varicosity; Cell culture (Emery, D.G. (692) 161)

Adrenergic receptor; Norepinephrine; Isoproterenol; Adenosine; Astrocyte; Cyclic AMP transport; Cerebral cortex; Cyclic AMP; Phosphodiesterase; Astrocyte; Secretion (Rosenberg, P.A. (692) 227)

Transport reversal
Nerve; Protein transport; Cold block; Microtubule; Taxol (Smith, R.S. (672) 205)

Transthyretin
Smooth muscle cell; β-Protein; ApoE3/E4; Tissue culture (Mazur-Kolecka, B. (698) 217)

Trauma
Cortex; Recovery; Motor function; Norepinephrine; Stroke; Rat (Goldstein, L.B. (674) 167)

Depolarization; Neurofilament protein; Potassium; Cytoskeleton; Ischemia; Epilepsy (Whitson, J.S. (694) 213)

Trauma-induced regeneration
Olfactory epithelium; Olfactory neuron; $ZnSO_4$; Olfactory marker protein; Tissue culture; Chemical trauma; Differentiation (Sosnowski, J.S. (702) 37)

Traumatic brain injury
Sodium channel blocker; Glutamate release inhibitor; Excitotoxicity; Neuronal damage; Motor deficit (Sun, F.-Y. (673) 133)

Recovery of function; Plasticity; Barrel receptor field; Vibrissa; Multimodality; Occipital cortex; Vicariation (Dunn-Meynell, A.A. (675) 143)

BIBN 99; Cholinergic; M2 antagonist; Memory; Morris water maze; Muscarinic; Rat; Treatment (Pike, B.R. (686) 37)

N-Methyl-D-aspartate; Antisense oligodeoxynucleotide; Neuroprotection; Mortality; Behavioral recovery; Astrocytic reaction (Sun, F.-Y. (693) 163)

Metabotropic glutamate receptor; Phenylglycine; α-Methyl-4-carboxyphenylglycine; Morbidity; Fluid percussion; Rat (Gong, Q.-Z. (700) 299)

Ischemic brain injury; Glutamate receptor; Neuronal death (Regan, R.F. (705) 188)

Traumatic spinal cord injury
Axonal pathology; Acute; Giant axon (Anthes, D.L. (702) 1)

Treatment
BIBN 99; Cholinergic; M2 antagonist; Memory; Morris water maze; Muscarinic; Rat; Traumatic brain injury (Pike, B.R. (686) 37)

TRH antibody
Atropine; Indomethacin; Kainic acid; Gastric acid secretion (Kaneko, H. (699) 97)

Triangular septal nucleus
Cytokine; Septofimbrial nucleus; Habenular nucleus; Interpeduncular nucleus; Autoradiogra-

phy; Blood–brain barrier; Capillary; Choroid plexus (Maness, L.M. (700) 83)

Triethylcholine
Control of breathing; Acetylcholine; Isolated brainstem; 3-Bromopyruvate; Hydroxycitrate; Citrate; Atropine (Burton, M.D. (670) 39)

Trigeminal
Formalin; Hyperalgesia; Orofacial; Plasticity; Rat (Cadet, R. (676) 189)

Serotonin; Pain; Mustard oil; Neuronal plasticity (Ebersberger, A. (676) 336)

Motoneuron; EPSP; Spindle afferent (Grimwood, P. (686) 259)

Motoneuron; EPSP; Spindle afferent (Grimwood, P. (689) 299)

Diving reflex; Cardiovascular; Respiration; Glutamate; Kynurenate; Lidocaine; Nasal; Medullary dorsal horn; Diving response; Muskrat (Panneton, W.M. (691) 37)

Trigeminal ganglion
Migraine; Neurogenic inflammation; Calcitonin gene-related peptide; Vasoactive intestinal peptide; Substance P; Antidromic vasodilatation (Escott, K.J. (669) 93)

Parvalbumin; Calretinin; Tooth pulp; Rat (Ichikawa, H. (679) 205)

Trigeminal input
Reticulospinal neurone; Excitatory amino acid; Glycine; Locomotion; Lamprey (Viana Di Prisco, G. (695) 76)

Trigeminal nerve
Adaptation; Temperature; Cold receptor; Menthol; Electrophysiological recording (Lundy Jr., R.F. (676) 169)

Acute inflammation; c-*fos*; Aging; Brainstem (Iwata, K. (678) 127)

c-Fos protein; Immunohistochemistry; Sneeze; Respiratory reflex; Cat (Wallois, F. (687) 143)

Trigeminal nucleus
Behavior; Brainstem; Itch; Opioid; Rat; Scratching (Thomas, D.A. (695) 267)

Trimethyltin (TMT)
Aggregating brain cell culture; Early development; Neurotoxicity; Microglia; Synaptophysin; Synapsin I; GAP-43 (Monnet-Tschudi, F. (690) 8)

Trisomy 16 mouse
Down's syndrome; Septum; Neuron culture; Membrane current; Action potential (Acevedo, L.D. (701) 89)

TrkB
Dental nerve; Development; Nerve injury; Neurotrophin; Immunocytochemistry (Foster, E. (686) 123)

Trypsinization
Brainstem; Cerebellum; Immunocytochemistry; S-100β (Yang, Q. (696) 49)

Tryptophan hydroxylase
Circadian; Melatonin; Serotonin; Retina; Light; Dopamine; *Xenopus* (Green, C.B. (677) 283)

Serotonin; Transcription, NF-Y; Neural gene (Reed, G.E. (682) 1)

Rat strain; Novel environments; Serotonin-1A receptors; Hypothalamo-pituitary-adrenal axis; Anxiety; Locomotor activity (Chaouloff, F. (693) 169)

Tubulin
Hippocampus; Ischemia, in vitro; MAP-2; Heat shock protein (Raley-Susman, K.M. (694) 94)

Microtubule-associated proteins; Actin-related proteins; *Drosophila* (Srinivasan, S. (701) 39)

G protein; Adenylyl cyclase; Dopamine receptor; Signal transduction (Hatta, S. (704) 23)

Tufted cell
Calcium-binding protein; Calretinin; Double fluorescence labeling; Dual-peroxidase staining; Olfactory system; Mitral cell (Wouterlood, F.G. (682) 93)

Tumor
Anorexia; Neuropeptide Y; Adenylate cyclase; Experimental cancer (Chance, W.T. (691) 180)

Tumor necrosis factor
Sleep suppression; Rat; Rabbit (Takahashi, S. (690) 241)

Tumor necrosis factor-α
Astrogliosis; Glial fibrillary acidic protein; Cytokine; Ciliary neurotrophic factor; ED1; MHCII; Microglia (Kahn, M.A. (685) 55)

Vagotomy; Rat; Hyperalgesia; Pain facilitation; Interleukin-1β; Interleukin-1 receptor antagonist; Formalin (Watkins, L.R. (692) 244)

Blood-brain barrier; Brain edema; Matrix metalloproteinase; Plasminogen activator; Rat (Rosenberg, G.A. (703) 151)

Tuning
Bandwidth; Guinea pig; Mapping; Receptive field; Threshold (South, D.A. (704) 275)

'Tuning' properties of the receptor potential
Primary muscle spindle afferent; Response to a ramp stretch; Initial burst (Schäfer, S.S. (686) 61)

Tupaia belangeri
Cortisol; Hippocampus; Norepinephrine; Urine analysis; Stress (Fuchs, E. (673) 275)

Vasopressin; Hypothalamus; Immunocytochemistry; Immunoelectron microscope (Luo, Y. (687) 191)

Turtle
Hair cell; Vestibular; Glutamate; Synapse; Inner ear (Cochran, S.L. (670) 321)

Ascorbic acid; Free radical; Glutathione; Ischemia; Rat; Temperature; Metabolism (Pérez-Pinzón, M.A. (705) 45)

Twitcher
Anisotropy; Diffusion; Jimpy; Histology; Magnetic Resonance Imaging; Myelination (Ono, J. (671) 141)

Type I
Adrenal steroid; Corticosterone; Type II receptors; Stress; Dynorphin mRNA; *N*-Methyl-D-aspartate receptor; AMPA receptor; Dentate gyrus; Mossy fiber; Stratum lucidum (Watanabe, Y. (680) 217)

Type II receptors
Adrenal steroid; Corticosterone; Type I; Stress; Dynorphin mRNA; *N*-Methyl-D-aspartate receptor; AMPA receptor; Dentate gyrus; Mossy fiber; Stratum lucidum (Watanabe, Y. (680) 217)

Typical / atypical antipsychotics
Ascorbic acid; Amineptine; Behavior; Mouse (De Angelis, L. (670) 303)

[des-Tyr^1]dynorphin A-(1-13)
Peptide blockers of excitatory opioid receptor function; β-Endorphin-(1-27); Dorsal root ganglion neuron; Action potential shortening vs. prolongation; Bimodal agonist action of endogenous opioid (Shen, K.-F. (673) 30)

Tyrosine
Rat; Diet; Protein; Brain; Hypothalamus; Retina; Dopamine; Catecholamine; Appetite (Fernstrom, M.H. (672) 97)

Tyrosine hydroxlase and phenethyl-*N*-methyl transferase immunoreactive cell
Bicuculline; Ethyl-β-Carboline-3-Carboxylate; γ-Aminobutyric acid; L-Glutamate; Muscimol; Picrotoxin; Vasodepressor neuron (Gatti, P.J. (693) 80)

Tyrosine hydroxylase
Intermediate lobe; Neuroendocrinology; Interaction; Monoamine; Cotransmission (Vanhatalo, S. (669) 275)

Glial cell line-derived neurotrophic factor; Dopamine; Substantia nigra; Striatum; Neuroprotection (Kearns, C.M. (672) 104)

Fast Blue; Stria terminalis; Limbic system; Catecholamine; Nucleus tractus solitarius (Terenzi, M.G. (672) 289)

Chemoreceptor pathway; Nucleus tractus solitarius; Norepinephrine; Brainstem (Soulier, V. (674) 188)

Calcium-binding protein; Carotid body; CGRP; Glossopharyngeal nerve; Nodose ganglion; Petrosal ganglion; Vagus nerve (Ichikawa, H. (675) 337)

Quinolinic acid; Excitotoxicity; L-NAME; Nitric oxide synthase (Connop, B.P. (676) 124)

Satiety substance; c-fos; Immunohistochemistry; Hypothalamus; Rat (Hisano, S. (676) 409)

Nicotine; Dopamine D_2 receptor; Receptor–receptor interaction; Hybridization, in situ (Li, X.-M. (679) 157)

Catecholamine; Serotonin; Immunohistochemistry; Cardiovascular (Allen, G.V. (680) 117)

Dopamine; Differentiation; Growth factor; Tissue culture; Gene activation (Du, X. (680) 229)

Ciliary ganglion; Substance P; Calcitonin gene-related peptide; Vasoactive intestinal polypeptide; Neuropeptide Y; Dopamine-β-hydroxylase; Human (Kirch, W. (681) 229)

Superior salivatory nucleus; Pterygopalatine ganglion; Cholera toxin B subunit; Serotonin; Neuropeptide; Double-immunostaining technique (Nemoto, T. (685) 33)

Goldfish, brain; Dopaminergic; Neuron; MPTP; Parkinson's disease; Animal model; Microscopy; Immunohistochemistry; Ultrastructure (Goping, G. (687) 35)

Basal ganglia; Substantia nigra; Dopamine; Mesolimbic; Nigrostriatal (Tan, Y. (689) 151)

Calcitonin gene-related peptide; Double immunohistochemistry; Nucleus of the solitary tract; A2-Catecholaminergic cell group (Fodor, M. (690) 141)

Retrovirus; Gene transfer; Neural transplantation; Rat; 6-Hydroxydopamine; Ex vivo gene therapy (Yoshimoto, Y. (691) 25)

Suprachiasmatic nucleus; Ontogenesis; Immunohistochemistry; Confocal laser scanning microscopy; Vasoactive intestinal polypeptide; Somatostatin; Neuropeptide Y; Aromatic L-aminoacid decarboxylase (Battaglia, A.A. (696) 7)

Opioid; Development; Cyclic AMP; Norepinephrine uptake (Sklair-Tavron, L. (702) 117)

Lipopolysaccharide; Astrocyte; Microglia; 6-hydroxydopamine; Dopamine; Parkinson's disease; Substantia nigra (Bronstein, D.M. (704) 112)

Hypothalamic paraventricular nucleus; Ventrolateral medulla; α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid; Rat; Dual immunocytochemistry; Retrograde tracing (Larsen, P.J. (705) 209)

Tyrosine hydroxylase mRNA
Pontine noradrenergic cell group; Chronic monoarthritis; Hybridization, in situ (Cho, H.-J. (695) 96)

Tyrosine kinase
Interleukin-1β; Serotonin; Intracellular calcium; Protein kinase C; C6BU-1 glioma (Kugaya, A. (682) 151)

U

U2AF
Amyloid precursor protein; Alternative splicing; P19; Embryonal carcinoma; Differentiation; ASF/SF2 (Tsukahara, T. (679) 178)

U50,488
Spiradoline; Nor-binaltorphimine; Morphine; Cocaine; Kappa opioid; Drug self-administration (Glick, S.D. (681) 147)

U50488
κ-Receptor; Enterostatin; Naloxone; Feeding; Galanin; Fat intake (Barton, C. (702) 55)

κ-Opioid receptor; P-type Ca^{2+} channel; G-protein; Dynorphin A; Norbinartorphimine; Purkinje cell; Rat (Kanemasa, T. (702) 207)

U50,488H
Abnormal posture; σ binding site; Haloperidol; Reduced haloperidol; Guinea-pig (Brent, P.J. (684) 115)

U-69,593
κ-Opioid receptor; Ca^{2+}-channel; Dihydropyridine; Analgesia (Barro, M. (672) 148)

Ulnar nerve
Somatosensory cortex; Magnetoencephalography; Evoked response; Median nerve; Human (Forss, N. (685) 68)

Ultracytochemistry
Guanylate cyclase; Natriuretic peptides; Rat C6 glioma; Dibutyryl cyclic AMP; Retinoic acid (Sorci, G. (683) 51)

Guanylate cyclase; Porcine brain natriuretic peptide; Frog; Choroid plexus; Epithelial cell (Vagnetti, D. (705) 295)

Ultradian wake–sleep cycle
Systemic brain cooling; Selective brain cooling; Posture; Vasoconstrictor sympathetic outflow (Azzaroni, A. (671) 78)

Ultrastructural immunocytochemistry
Oligodendrocyte; Myelin; Glycolipid; Galactocerebroside; Sulfatide (Schiff, R. (686) 143)

Ultrastructural localization
Nitric oxide synthase; Human cerebral artery; Endothelium; Translocation; Bradykinin (Fukuda, S.-i. (696) 30)

NADPH-diaphorase; Neuron; Endothelial cell; Glial cell; Brain; Goldfish (Villani, L. (705) 332)

Ultrastructure
AMPA receptor; Immunocytochemistry; Confocal microscopy; Vestibular system; Rat; Guinea pig (Demêmes, D. (671) 83)

Retrograde axonal transport; Albumin; Transferrin; Transferrin receptor; Lysosome; Motor neuron; Toxic metal; Amyotrophic lateral sclerosis; Rat (Moos, T. (672) 14)

Dorsal motor nucleus; Glutamate; Negative dromotropic: Retrograde transport; Vagus nerve (Massari, V.J. (679) 227)

Mesolimbic; Catecholamine; Striatum; Immunocytochemistry (Van Bockstaele, E.J. (682) 215)

Goldfish, brain; Tyrosine hydroxylase; Dopaminergic; Neuron; MPTP; Parkinson's disease; Animal model; Microscopy; Immunohistochemistry (Goping, G. (687) 35)

Human brain; Subcellular distribution; Receptor; Marker enzyme (Maloteaux, J.-M. (687) 155)

Cardiovascular; Baroreceptor; Blood pressure; Tract tracing (Aicher, S.A. (693) 51)

Baroreceptor; Carotid sinus nerve; Chemoreceptor; Histochemistry; Immunocytochemistry; Synapse; Transganglionic transport (Gatti, P.J. (693) 133)

OX7-saporin; Volkensin; Synapses; Basal ganglia; Ricin (Roberts, R.C. (701) 227)

Cerebral amyloid angiopathy; Dog; Aging; Morphometry; Smooth muscle cell (Wegiel, J. (705) 225)

Unbound bilirubin
Permeability; Blood–brain barrier; Newborn (Lee, C. (689) 233)

Undernutrition
Myelin; Pyramidal tract; Spinal cord; D-wave; I-wave; Development (Quirk, G.J. (670) 277)

Uni- and bilateral projection
Retinal ganglion cell; Double labeling; Fluorescent tracer; Superior colliculus; Ocular enucleation (Farid Ahmed, A.K.M. (704) 307)

Unilateral nigrostriatal lesion
Rat; Striatum; Dopamine contents; Ipsilateral rotation; 6-Hydroxydopamine (Matsuda, H. (686) 111)

Unmyelinated axon
Corpus callosum; Sex difference; Genu; Myelinated axon; Myelin sheath; Electron microscopy (Mack, C.M. (697) 152)

3′ Untranslated region
Pentylenetetrazol; Seizure-related gene; Calcium current; *Xenopus* oocyte (Kajiwara, K. (671) 170)

Up-regulation
Rat hippocampus; Neuronal nicotinic acetylcholine receptor; Immunocytochemistry; Methyllycaconitine; Nicotine; [^{3}H]QNB (Barrantes, G.E. (672) 228)

Uptake
Ethanol; *N*-Methyl-D-aspartate; Nomifensine; Dopamine release; Striatum; Electrochemistry, in vivo (Lin, A.M.-Y. (696) 15)

Uptake transporter
Cyclic voltammetry, in vivo; 5-Hydroxytryptamine; Dopamine; Fluoxetine; Nomifensine (Jackson, B.P. (674) 163)

Urethane
Glutamatergic transmission; Decerebrate; Urinary bladder; External urethral sphincter; Cystometrogram (Yoshiyama, M. (691) 185)

Urethane anesthesia
Cat brainstem; Coupled oscillator; Ordinary coherence; Partial coherence; Sympathetic nerve discharge (Zhong, S. (670) 329)

Urinary bladder
Spinal cord injury; Micturition; Capsaicin; Afferent pathway (Cheng, C.-L. (678) 40)

Glutamatergic transmission; Urethane; Decerebrate; External urethral sphincter; Cystometrogram (Yoshiyama, M. (691) 185)

Urine analysis
Cortisol; Hippocampus; Norepinephrine; Stress; *Tupaia belangeri* (Fuchs, E. (673) 275)

Uterus
Caudate nucleus; Estrogen; Antiestrogen; Nigrostriatal (McDermott, J.L. (698) 248)

Solitary nucleus; Vagus; Reproduction; Cervix; Vagina; Viscera; Nucleus of the solitary tract (Hubscher, C.H. (702) 251)

V

Vagina
Solitary nucleus; Vagus; Reproduction; Cervix; Uterus; Viscera; Nucleus of the solitary tract (Hubscher, C.H. (702) 251)

Vagotomy
2-Deoxy-D-glucose; Central nervous system; Gastric emptying; Thyrotropin-releasing hormone (TRH); Pancreatic polypeptide (Okumura, T. (674) 137)

Rat; Tumor necrosis factor-α; Hyperalgesia; Pain facilitation; Interleukin-1β; Interleukin-1 receptor antagonist; Formalin (Watkins, L.R. (692) 244)

Vagus
Medulla oblongata; Feeding; Microdialysis; Raphe (Mohammed, J.R. (695) 100)

Solitary nucleus; Reproduction; Cervix; Uterus; Vagina; Viscera; Nucleus of the solitary tract (Hubscher, C.H. (702) 251)

Vagus nerve
Herpes simplex virus; Fos; Medulla oblongata (Gieroba, Z.J. (675) 329)

Calcium-binding protein; Carotid body; CGRP; Glossopharyngeal nerve; Nodose ganglion; Petrosal ganglion; Tyrosine hydroxylase (Ichikawa, H. (675) 337)

Dorsal motor nucleus; Glutamate; Negative dromotropic: Retrograde transport; Ultrastructure (Massari, V.J. (679) 227)

Intestinal anaphylaxis; c-fos; Paraventricular nucleus; Lateral parabrachial nucleus; Nucleus of the solitary tract; 5-HT_3 receptors (Castex, N. (688) 149)

Valproate
Seizure; Remission; Relapse; Cardiac arrest; Ischemia (Iyer, V.G. (689) 159)

Valproic acid
γ-Aminobutyric acid; Microdialysis; Anti-epileptic drug; γ-Vinyl-GABA; Vigabatrin (Sayin, U. (669) 67)

Epilepsy; Anticonvulsant action; γ-Aminobutyric acid; Chloral hydrate; Ketamine; Fentanyl; Opioid (Löscher, W. (702) 133)

VAMP/synaptobrevin
Acetylcholine release; Synaptic vesicle exocytosis; Clostridial neurotoxin; Synaptosome; *Torpedo*; Neuromuscular junction; Miniature end plate current (Herreros, J. (699) 165)

Vanilloid receptor
[^{3}H]Resiniferatoxin autoradiography; Capsaicin-sensitive neuron; Axonal transport; Nodose ganglia; Capsazepine (Szallasi, A. (703) 175)

Varicosity
Hypothermia; Injury; Microtubule; Cell culture; Transport (Emery, D.G. (692) 161)

Vascularity
Hypothalamic paraventricular nucleus; Morphometry; Stress; Synaptic organization; Wistar rat (Mulders, W.H.A.M. (689) 47)

Vascular permeability
FITC-albumin; Cerebral venule; Venular pressure; Calphostin C; Sphingosine; Brain; Rat (Mayhan, W.G. (696) 106)

Blood–brain barrier; Histamine; Bradykinin; Serotonin; Cerebral endothelium (Butt, A.M. (696) 145)

Vasculature
Nitric oxide synthase; NADPHd; Retina; Colocalisation; Human; Rat (Roufail, E. (684) 36)

Vasoactive intestinal peptide
Trigeminal ganglion; Migraine; Neurogenic inflammation; Calcitonin gene-related peptide; Substance P; Antidromic vasodilatation (Escott, K.J. (669) 93)

Vasoactive intestinal polypeptide
Vasopressin; Human hypothalamus; Suprachiasmatic nucleus; Sexual orientation; Homosexuality (Zhou, J.-N. (672) 285)

Ciliary ganglion; Substance P; Calcitonin gene-related peptide; Neuropeptide Y; Tyrosine hydroxylase; Dopamine-β-hydroxylase; Human (Kirch, W. (681) 229)

Hypothyroidism; Forebrain; Hypothalamus; Circumventricular region; Immunocytochemistry (Toni, R. (682) 101)

Autonomic nervous system; Cardiovascular regulation; Corticotrophin releasing factor; Enkephalin; Heart; Lateral hypothalamic area; Medulla oblongata; Neuropeptide Y; Oxytocin; Paraventricular hypothalamic nucleus; Pseudorabies virus; Raphe nuclei; Serotonin; Somatostatin; Stellate ganglion; Sympathetic nervous system (Jansen, A.S.P. (683) 1)

Rat; Sleep; Wake; Nucleus raphe dorsalis; Local injection; Corticotropin-like intermediate lobe peptide; *p*-Chlorophenylalanine (El Kafi, B. (686) 150)

Hippocampus; Human epilepsy; Immunocytochemistry; Receptor (De Lanerolle, N.C. (686) 182)

Suprachiasmatic nucleus; Anophthalmic mice (Laemle, L.K. (688) 203)

Suprachiasmatic nucleus; Aging; Vasopressin; Light intensity; Immunocytochemistry (Lucassen, P.J. (693) 261)

Hypothalamus; Neuronal nitric oxide synthase; Hamster; NADPH-diaphorase; Western blot; Circadian system (Reuss, S. (695) 257)

Suprachiasmatic nucleus; Tyrosine hydroxylase; Ontogenesis; Immunohistochemistry; Confocal laser scanning microscopy; Somatostatin; Neuropeptide Y; Aromatic L-aminoacid decarboxylase (Battaglia, A.A. (696) 7)

Prejunctional inhibition; Acetylcholine; ω-Conotoxin; Nitroxidergic nerve; Magnesium (Toda, N. (700) 213)

Intracerebroventricular; Pituitary adenylate cyclase-activating polypeptide; Thyrotropin-releasing hormone; Spontaneous motor activity; Rearing behavior; Reserpine; Hypothermia (Masuo, Y. (700) 219)

Vasoactive peptide
Endothelin; Chick embryo; Optic tectum (Hsu, L. (703) 72)

Vasoconstrictor sympathetic outflow
Systemic brain cooling; Selective brain cooling; Posture; Ultradian wake–sleep cycle (Azzaroni, A. (671) 78)

Vasodepressor neuron
Bicuculline; Ethyl-β-Carboline-3-Carboxylate; γ-Aminobutyric acid; L-Glutamate; Muscimol; Picrotoxin; Tyrosine hydroxlase and phenethyl-*N*-methyl transferase immunoreactive cell (Gatti, P.J. (693) 80)

Vasodilation
Nitric oxide; Nitric oxide synthase; Calcitonin gene-related peptide; Microvessel; Hippocampus (Fergus, A. (694) 78)

Vasodilator
Calcitonin gene-related peptide; Cerebral blood flow; Cerebral microvessel; $CGRP_{8-37}$; Photoelectric method (Kobari, M. (698) 95)

Vasomotor control
A-current; Anomalous rectifier; Autonomic nervous system; Brainstem slice; Central adrenergic neuron; DiI retrograde transport; Medulla oblongata; Pacemaker neurons; Persistent sodium current; Medulla oblongata; Sympathetic nervous system (Kangrga, I.M. (670) 215)

Vasopressin
Oxytocin; Olfactory bulb; Maternal experience; Sheep (Lévy, F. (669) 197)

Oxytocin; Electrophysiology; Coexistence; Milk-ejection reflex; Phenotype; Plasticity (Moos, F.C. (669) 309)

Oxytocin; Prolactin; Lactation; Hypothalamus; Posterior pituitary (Ghosh, R. (672) 24)

Vasoactive intestinal polypeptide; Human hypothalamus; Suprachiasmatic nucleus; Sexual orientation; Homosexuality (Zhou, J.-N. (672) 285)

Testosterone; Hamster; Autoradiography; Medial preoptic area; Anterior hypothalamus; Flank marking (Johnson, A.E. (674) 153)

mRNA; Dehydration; Salt-loading; Sex difference (Dai, W.-J. (676) 178)

Culture; Meninges; Hypothalamus; Pituitary; Regeneration; Hypophysectomy (Ishikawa, K. (677) 20)

Corticotropin-releasing hormone; Brain cell culture; CRH receptor; Extrahypothalamic; Cyclic AMP; Anterior pituitary; Modulation; Corticosterone; Protein kinase C; Dexamethasone; Glucocorticoid (Kapcala, L.P. (678) 207)

Fos immunoreactivity; Ethanol; Hypothalamus; Amygdala; Edinger–Westphal nucleus; Parabrachial nucleus; Dehydration (Chang, S.L. (679) 89)

Astroglia; Proliferation; Oxytocin; Mitogen; Rat (Lucas, R.L. (681) 218)

Social stress; Corticotropin-releasing hormone; Corticosterone; Desensitization (Bugajski, J. (681) 223)

Circadian rhythm; Suprachiasmatic nucleus; Pacemaker; Protein synthesis; Anisomycin; Cell culture; Antisense (Watanabe, K. (684) 179)

Hypothalamus; *Tupaia belangeri*; Immunocytochemistry; Immunoelectron microscope (Luo, Y. (687) 191)

Norepinephrine; Neuropeptide Y; Blood pressure; Heart rate; Sexual dimorphism (Sato, K. (689) 71)

Morphine; Oxytocin; Food intake; Ventromedial hypothalamus; Lateral hypothalamus (Gulati, K. (690) 99)

Suprachiasmatic nucleus; Aging; Vasoactive intestinal polypeptide; Light intensity; Immunocytochemistry (Lucassen, P.J. (693) 261)

Dopamine; Blood pressure; Ventral tegmental area; Substantia nigra; Raclopride; SCH 23390; DiMe-C7; Substance P (Cornish, J.L. (701) 28)

G-protein; Oxytocin; Receptor (Flanagan-Cato, L.M. (701) 75)

Astrocyte; Calcium; Immunocytochemistry; Protein kinase C; Suprachiasmatic nucleus (Van der Zee, E.A. (701) 99)

Vasopressin(4–8); Hippocampus; Transmission; Potentiation; Excitability (Chepkova, A.N. (701) 255)

Nitric oxide synthase; Endotoxin; Corticotropin-releasing factor; Hypothalamus (Lee, S. (705) 136)

Vasopressin(4–8)
Vasopressin; Hippocampus; Transmission; Potentiation; Excitability (Chepkova, A.N. (701) 255)

Ventilation
Autonomic nervous system; Excitatory amino acid receptor; Dorsal horn (Wong, M.K.C. (683) 149)

Ventral funiculus
Spinal cord; White matter; Histology; Motor function; Spontaneous running rat; Permanent microdialysis implantation (Gerin, C. (704) 191)

Ventral horn neuron
Succinate dehydrogenase activity; Soma size; Dorsal root ganglion neuron; Cat (Ishihara, A. (676) 212)

Ventral lateral geniculate
Retina; Ganglion cell; Posterior lateral nucleus; Retrograde double-labeling; Ipsilateral; Fluorescent tracer; Rat (Farid Ahmed, A.K.M. (674) 275)

Ventral mesencephalon
Transplantation; Striatum; Astrocyte; Glial fibrillary acidic protein; Migration; Thalamus (Pundt, L.L. (695) 25)

Ventral pallidum
Ventral striatum; Sensorimotor gating; PPI; $GABA_B$ (Kodsi, M.H. (684) 26)

Ventral posterolateral nucleus
Lateral cervical nucleus; Synaptic vesicle; Amino acid; Immunogold; Somatosensory (Kechagias, S. (675) 316)

Ventral respiratory group
Respiration; Nucleus retroambigualis; Inspiratory neuron; Axonal collateral; Spinal cord; Phrenic nucleus; Brainstem (Sasaki, S.-I. (701) 108)

Ventral striatum
Ventral pallidum; Sensorimotor gating; PPI; $GABA_B$ (Kodsi, M.H. (684) 26)

Ventral tegmental area
Opioid; DAMGO; DPDPE; μ; δ; Feeding (Noel, M.B. (673) 304)

Dopamine; Cocaine; Sensitization; Fast cyclic voltammetry; Nucleus accumbens; Rat (Williams, J.E.G. (678) 225)

Brain stimulation reward; Self-stimulation; Aversion; Analgesia; Nucleus reticularis gigantocellularis (Anderson, R. (688) 15)

Opioid; Mu-opioid receptor; CTOP; Nucleus accumbens; Feeding; Drinking; Locomotor activity; Rat (Badiani, A. (690) 112)

Cholecystokinin; Copulation; Dopamine; Intracranial stimulation; Nucleus accumbens; Sexual behavior (Markowski, V.P. (699) 266)

Dopamine; Blood pressure; Substantia nigra; Raclopride; SCH 23390; Vasopressin; DiMe-C7; Substance P (Cornish, J.L. (701) 28)

Ventral tegmentum
Locomotion; Nicotine; Mesolimbic; Dopamine; Rat (Museo, E. (670) 257)

Ventrobasal thalamus
Cross-correlation analysis; Inhibitory circuit; Neuronal coordination; Species difference; Somatosensory system (Alloway, K.D. (691) 46)

Ventrolateral hypothalamus
Arginine-vasopressin; Sexual differences; Quantitative autoradiography (Delville, Y. (681) 91)

Arginine-vasopressin; Quantitative autoradiography; Lactation; Dorsomedial hypothalamic nucleus; Suprachiasmatic nucleus (Delville, Y. (689) 147)

Ventrolateral medulla
Hypertonicity; Osmoregulation; Nucleus of the solitary tract; Parabrachial nucleus; Catecholamine; Cardiovascular regulation; A1 noradrenergic cell group; C1 adrenergic cell group (Hochstenbach, S.L. (674) 46)

Morphine; Adrenergic neuron; c-fos; α-Methyl norepinephrine; Clonidine (Baraban, S.C. (676) 245)

Human medulla; Cerebral blood vessel; Catecholamine; Nitric oxide (Benarroch, E.E. (684) 215)

Hypothalamic paraventricular nucleus; Tyrosine hydroxylase; α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid; Rat; Dual immunocytochemistry; Retrograde tracing (Larsen, P.J. (705) 209)

Ventrolateral nucleus tractus solitarius
Dorsal respiratory group; Superior laryngeal nerve; NBQX; Respiratory control (Karius, D.R. (682) 235)

Ventrolateral orbital cortex
Thalamic nucleus submedius; Periaqueductal gray; Descending modulation; Tail flick reflex; Rat (Zhang, Y.-Q. (696) 205)

Ventromedial hypothalamic nucleus
Aging; Caudate putamen; Olfactory tubercle; Oxytocin receptor; Rat brain; Testosterone (Arsenijevic, Y. (698) 275)

Ventromedial hypothalamus
Insulin; Microdialysis; Paraventricular nucleus; Feeding behavior; Satiety (Orosco, M. (671) 149)

Lordosis; Medial preoptic area; Progesterone; Neuropeptide (Whitman, D.C. (680) 73)

Brain lesion; Receptivity; Reptile; Sexual behavior (Kendrick, A.M. (680) 226)

PGE_2 release; Sleep; Wakefulness; Paraventricular nucleus (Gerozissis, K. (689) 239)

Morphine; Oxytocin; Vasopressin; Food intake; Lateral hypothalamus (Gulati, K. (690) 99)

Prolactin; Dopamine D_1 receptor; Dopamine; SCH23390; Sheep (Curlewis, J.D. (697) 48)

Interleukin-1β; Preoptic area; Hyperalgesia; Analgesia; Diagonal band of Broca; Prostaglandin; α-Melanocyte stimulating hormone; Pain (Oka, T. (700) 271)

Ventromedial nucleus of the hypothalamus
Cerebrospinal fluid; Plasma; Amino acid; Single unit activity; Brain slice (Nishimura, F. (691) 217)

Venular pressure
FITC-albumin; Cerebral venule; Calphostin C; Sphingosine; Vascular permeability; Brain; Rat (Mayhan, W.G. (696) 106)

Verapamil
Rat cerebellar Purkinje neuron; Nystatin-perforated patch-clamp; P-type Ca^{2+} channel; Diltiazem (Ishibashi, H. (695) 88)

Verapamil hydrochloride
Brain lesioning; Calcium channel; Glial fibrillary acidic protein; Reactive astrocyte (Klepper, S. (695) 245)

Veratridine
Rat neuromuscular junction; Miniature endplate current; Vesamicol; Cholinergic synaptic vesicle; *Torpedo* electroplaque (Pemberton, K.E. (671) 267)

Slow depolarizing after-potential; Epileptiform activity; Seizure-like activity; Kynurenic acid; Cocaine; Tetrodotoxin (Tian, L.-M. (680) 164)

Vermis
Breathing control; Fastigial nucleus; Respiratory neuron; Phrenic neurogram; Electrical stimulation; Kainic acid (Xu, F. (705) 53)

Vesamicol
Rat neuromuscular junction; Miniature endplate current; Veratridine; Cholinergic synaptic vesicle; *Torpedo* electroplaque (Pemberton, K.E. (671) 267)

Acetylcholine release; 4-Aminobenzovesamicol; (*trans*)-Cyclohexovesamicol; Synaptic vesicle; Vesicular transport (Leão, R.M. (703) 86)

Vesicle
Dopamine; Dopamine exocytosis; Cell body; Vesicle content; Vesicle size; Multiple classes of vesicle; Distribution; *Planorbis corneus* (Chen, G. (701) 167)

Synaptotagmin; Synapse; Neuromuscular junction; Crustacean (Cooper, R.L. (703) 214)

Vesicle content
Dopamine; Dopamine exocytosis; Cell body; Vesicle; Vesicle size; Multiple classes of vesicle; Distribution; *Planorbis corneus* (Chen, G. (701) 167)

Vesicle size
Dopamine; Dopamine exocytosis; Cell body; Vesicle; Vesicle content; Multiple classes of vesicle; Distribution; *Planorbis corneus* (Chen, G. (701) 167)

Vesicular transport
Acetylcholine release; Vesamicol; 4-Aminobenzovesamicol; (*trans*)-Cyclohexovesamicol; Synaptic vesicle (Leão, R.M. (703) 86)

Vestibular
Hair cell; Glutamate; Synapse; Inner ear; Turtle (Cochran, S.L. (670) 321)

Vestibular compensation
Guinea pig; S100 protein; Vestibular system; Labyrinthectomy; Plasticity (Rickmann, M. (688) 8)

Neural plasticity; Decompensation; Nystagmus; *N*-Methyl-D-aspartate receptor; Immunohistochemistry (Kitahara, T. (700) 182)

Vestibular endorgan
Glutamate; Glutamine; Compartmentation; Rat; Immunocytochemistry (Usami, S.-i. (676) 285)

Vestibular neurotomy
Evoked otoacoustic emission; Acoustic reflex; Medial olivocochlear efferent (Giraud, A.L. (705) 15)

Vestibular nuclear neuron
Otolith; Off-vertical axis rotation; Bidirectional response sensitivity; Spatial property; Response dynamic; Rat (Lai, C.H. (693) 39)

Vestibular nucleus
Thalamus; Wheat germ agglutinin-horseradish peroxidase; *Phaseolus vulgaris* leucoagglutinin (Shiroyama, T. (704) 130)

Vestibular stimulation
Neuronal activity; γ-Aminobutyric acid; Cerebellum; Morphometry; Cerebellectomy; Ataxia; Compensation (Grüsser-Cornehls, U. (703) 51)

Vestibular system
AMPA receptor; Immunocytochemistry; Ultrastructure; Confocal microscopy; Rat; Guinea pig (Demêmes, D. (671) 83)

Guinea pig; S100 protein; Labyrinthectomy; Vestibular compensation; Plasticity (Rickmann, M. (688) 8)

Vibrissa
Traumatic brain injury; Recovery of function; Plasticity; Barrel receptor field; Multimodality; Occipital cortex; Vicariation (Dunn-Meynell, A.A. (675) 143)

Vicariation
Traumatic brain injury; Recovery of function; Plasticity; Barrel receptor field; Vibrissa; Multimodality; Occipital cortex (Dunn-Meynell, A.A. (675) 143)

***Vicia villosa* agglutinin**
Chondroitin proteoglycan; Extracellular matrix (Bertolotto, A. (673) 344)

Vigabatrin
γ-Aminobutyric acid; Microdialysis; Anti-epileptic drug; Valproic acid; γ-Vinyl-GABA (Sayin, U. (669) 67)

Vinblastine
Sensory neuron; Carbonic anhydrase; Peripheral target interaction; Botulinum toxin (Mayeux, V. (694) 191)

γ-Vinyl-GABA
γ-Aminobutyric acid; Microdialysis; Anti-epileptic drug; Valproic acid; Vigabatrin (Sayin, U. (669) 67)

Viral envelope glycoprotein
Pseudorabies virus; Sympathetic nervous system (Sams, J.M. (687) 182)

Viscera
Pain; Colorectal distension; Nociception; Pentobarbital (Follett, K.A. (669) 157)

Thalamus; Reproductive organ; Nociception; Pain (Berkley, K.J. (695) 92)

Solitary nucleus; Vagus; Reproduction; Cervix; Uterus; Vagina; Nucleus of the solitary tract (Hubscher, C.H. (702) 251)

Visceral
Nociception; Colon; Colorectal distension; Inflammation; Acetic acid (Burton, M.B. (672) 77)

Visceral nociception
Opioid; Pain; Analgesia (Traub, R.J. (701) 175)

Vision
Brain; Arachidonate; Docosahexaenoate; Palmitate; Deoxyglucose; Quantitative autoradiography; Visual system; Orbital enucleation; Rat; Fatty acid; Lipid; Phospholipid; Glucose; Neuroplasticity (Wakabayashi, S. (679) 110)

Task complexity; Hoffmann reflex gain (Hoffman, M.A. (700) 303)

Visual
Auditory; Polysensory; Evoked potential (Barth, D.S. (678) 177)

Learning; Memory; Recognition; Priming; Rat; Recognition; Anesthesia; Consciousness; Rhinal cortex; Single unit; Hippocampal (Zhu, X.O. (689) 101)

Visual cortex
Stimulus-induced oscillation; Spatial convergence; Oscillatory field; Cat (Bauer, R. (669) 291)

γ-Aminobutyric acid; Somatostatin; Visual deprivation; Intracortical inhibition (Benevento, L.A. (689) 172)

Microtubule-associated protein; Plasticity; Monocular deprivation; Cytoskeleton; Oc1; Development, immunohistochemistry (Werner, D. (701) 55)

Visual deprivation
Development; Adult glia; Oc1; Plasticity (Hawrylak, N. (683) 187)

γ-Aminobutyric acid; Somatostatin; Visual cortex; Intracortical inhibition (Benevento, L.A. (689) 172)

Visual field representation
Corticotectal projection; Striate cortex; Extrastriate cortex; Retinotectal projection; Horseradish peroxidase (Amer-Ferrer, G. (695) 283)

Visual pathway
Fish; Microglia; Regeneration; Tomato lectin (Velasco, A. (705) 315)

Visual system
Retina; Ganglion cell; *Spermophilus tridecemlineatus*; Collateral (Lugo, N. (673) 161)

Brain; Arachidonate; Docosahexaenoate; Palmitate; Deoxyglucose; Quantitative autoradiography; Orbital enucleation; Rat; Fatty acid; Lipid; Phospholipid; Glucose; Vision; Neuroplasticity (Wakabayashi, S. (679) 110)

c-*fos*; Immediate-early gene; Transcription factor (Montero, V.M. (690) 189)

Vitamin A
Circadian; Cone; Mouse; Photoreceptor; Retinal degenerate; Retinaldehyde; Rod (Provencio, I. (694) 183)

Vitamin E
Alzheimer's disease; Amylin; β2-Microglobulin; Calcium; Fura-2; Hippocampus; Prion protein; 2,7-Dichlorofluorescin (Mattson, M.P. (676) 219)

Vitamin E-deficiency
Long-term potentiation; α-Tocopherol; Hippocampal slice; CA1 neuron; Excitatory postsynaptic potential (Xie, Z. (681) 193)

VMH lesion
Neuropeptide Y; Hyperphagia; Immunoneutralization (Dube, M.G. (690) 275)

Vocalization
Cortical field potential; Monkey; Broca's area; Cingulate cortex; Cerebellar hemispherectomy (Gemba, H. (697) 143)

Vole
Female; Estrus; Olfaction; c-*fos*; Accessory olfactory system (Moffatt, C.A. (677) 82)

Volkensin
Ricin; Cerebellum; Inferior olive; Pontine nuclei; Retrograde transport; Neuronal degeneration (Cevolani, D. (689) 163)

OX7-saporin; Synapses; Ultrastructure; Basal ganglia; Ricin (Roberts, R.C. (701) 227)

Voltage-clamp
Insect motoneurone; Ca-dependent potassium current; Muscarinic agonist outward current. (David, J.A. (669) 153)

Serotonin 5-HT_3 receptor; Cocaine; Competitive inhibition; *Xenopus* oocyte (Fan, P. (673) 181)

Voltage clamp
N-Methyl-D-aspartate; γ-Aminobutyric acid; Glutamate; Cerebral cortex; Development; Rat; Evoked potential (Metherate, R. (699) 221)

Inward rectifier; Potassium current; Horizontal cell; Sodium dependency; Retina (Pfeiffer-Linn, C.L. (701) 81)

Voltage-dependent Ca^{2+} channel
Calcium channel; GT1-7 neuron; Nimodipine; BayK 8644; Conotoxin; Hypothalamus; GnRH (Javors, M.A. (694) 49)

Voltage-dependent calcium channel
Hippocampus; Selective vulnerability; Global cerebral ischemia; Norepinephrine release; Nitrendipine; *N*-Methyl-D-aspartate receptor-channel complex (Hurt, K.J. (673) 226)

Transplatin; Cisplatin; Ototoxicity; Cochlear outer hair cell; Whole-cell patch-clamp; Compound action potential (Saito, T. (697) 276)

Voltage-dependent sodium channel
Focal cerebral ischemia; *N*-Methyl-D-aspartate; Glutamate; Microdialysis (Chen, J. (699) 121)

Voltage-gated sodium channel
Chicken antibody; Rat brain; SDS-PAGE; Western blot (Jarnot, M.D. (674) 159)

Voltage-sensitive calcium channels
ω-Conotoxin GVIA; ω-Agatoxin IVA; ω-Conotoxin MVIIC; Intracellular Ca^{2+}; Hippocampal synaptosomes (Malva, J.O. (696) 242)

Voltage-sensitive dye
Odorant exposure; Optical recording; Odorant identification; Neurophysiology; Rat (Youngentob, S.L. (670) 82)

Purkinje cell; Imaging; Fluorescence (Kogan, A. (700) 235)

Voltammetry
7-OH-DPAT; Dopamine D_3 receptor; Autoreceptor; ICSS (Gilbert, D.B. (681) 1)

6-Hydroxydopamine lesion; Cortical; Subcortical; Psychosis (Thompson, T.L. (686) 93)

Hypoxia; *N*-Methyl-D-aspartate; Dopamine (Wang, Y. (693) 233)

Voltammetry, in vivo
Morphine; Withdrawal syndrome; Rostral ventrolateral medulla; Excitatory amino acid; Naloxone; Opioid (Wang, L. (697) 130)

Volume estimation
Middle cerebral artery; Cerebral infarction; Cavalieri (Avendaño, C. (673) 83)

Volume reconstruction
Song control nucleus; Male sexual behavior; Immunocytochemistry; Zebra finch; *Taeniopygia guttata* (Ball, G.F. (699) 83)

Volume transmission
Neuropeptide Y; Fos; Fourth ventricle; Paraventricular nucleus; Forebrain; Extracellular fluid transport (Xu, B. (698) 227)

Vomeronasal organ
G protein; Accessory olfactory bulb; Opossum; *Monodelphis domestica*; Differential localization (Halpern, M. (677) 157)

Olfactory system; Chemosensory; Neurogenesis; Development; Precursor cell; Nestin (Osada, T. (683) 254)

Vomeronasal system
Maternal behavior; [^{14}C]2-Deoxyglucose autoradiography; Parturition; Sensitization; Medial preoptic area (Del Cerro, M.C.R. (696) 213)

Vomiting
Cardiovascular control; Orthostatic hypotension; Motion sickness; Sympathetic nervous system; Blood pressure (Yates, B.J. (689) 197)

VTA
Mu-opioid; Kappa-opioid; Delta-opioid; DAMGO; U-50,488H; DPDPE; Amphetamine; Mesoaccumbens dopaminergic system; Feeding; Drinking; Hyperdipsia; Gnawing; Activity; VTA (Badiani, A. (670) 264)

Mu-opioid; Kappa-opioid; Delta-opioid; DAMGO; U-50,488H; DPDPE; Amphetamine; VTA; Mesoaccumbens dopaminergic system; Feeding; Drinking; Hyperdipsia; Gnawing; Activity (Badiani, A. (670) 264)

W

Wake
Rat; Sleep; Nucleus raphe dorsalis; Local injection; Corticotropin-like intermediate lobe peptide; Vasoactive intestinal polypeptide; *p*-Chlorophenylalanine (El Kafi, B. (686) 150)

Wakefulness
PGE_2 release; Sleep; Paraventricular nucleus; Ventromedial hypothalamus (Gerozissis, K. (689) 239)

Wake–sleep cycle
Cyclic AMP; Anteroventro-medial hypothalamus; Cerebral cortex; Pineal gland; Interscapular brown adipose tissue; Low ambient temperature (Perez, E. (684) 56)

Water balance
Fos-like immunoreactivity; Dehydration; Polydipsia; Hypothalamus; Circumventricular organ; Inbred mouse (Ueta, Y. (677) 221)

Water deprivation
Osmotic effect; Cell volume; Interstitial space; Tissue resistance; Hypertonia; Spreading depression; Synaptic transmission (Huang, R. (702) 181)

Water intake
Lateral parabrachial nucleus; Angiotensin II; Arterial pressure; Thirst; Local anesthetic (Menani, J.V. (695) 250)

Atrial volume receptor; Lateral parabrachial nucleus; Isoproterenol; Rat (Ohman, L.E. (695) 275)

Water maze
Passive avoidance; Cingulate cortex; Muscarinic receptor (Riekkinen Jr., P. (685) 46)

WAY 100135
Fos; Stress; Noradrenergic system; Prazosin; Betaxolol; ICI118551; Fluphenazine; Ketanserin (Stone, E.A. (694) 279)

Weaver mouse
Ectopia; Hippocampus; Timm staining (Sekiguchi, M. (696) 262)

Wernicke–Korsakoff syndrome
Alzheimer's disease; β-Amyloid precursor protein; Immunocytochemistry; Neurodegeneration; Thiamine deficiency (Calingasan, N.Y. (677) 50)

Western blot
Chicken antibody; Rat brain; Voltage-gated sodium channel; SDS-PAGE (Jarnot, M.D. (674) 159)

Growth inhibitory factor; Stab wound; Gliosis; Reactive astrocyte; Alzheimer's disease; Northern blot (Hozumi, I. (688) 143)

Hypothalamus; Neuronal nitric oxide synthase; Hamster; NADPH-diaphorase; Circadian system; Vasoactive intestinal polypeptide (Reuss, S. (695) 257)

Western blotting
Alcoholism; Alcohol, ethyl; Excitatory amino acid receptor; Receptor, glutamate; Receptor, AMPA; Receptor, kainate; Schizophrenia; Human postmortem tissue; NCAM; Tau; Immunoreactivity (Breese, C.R. (674) 82)

Bergmann glia; Immunohistochemistry; Astroglia (Mendis, D.B. (676) 69)

Chemical hypoxia; Protein kinase C; Differentiated PC12 cells; Cyanide; Immunohistochemistry; LDH; Cytotoxicity (Pavlaković, G. (676) 205)

Glucocorticoid receptor; Adrenalectomy; Binding; Hippocampus; Frontal cortex (O'Donnell, D. (687) 133)

Cyclic ADP-ribose; Second messenger system; Central nervous system; Immunohistochemistry; Neuron (Mizuguchi, M. (697) 235)

WGA-gold
GAD; Immunocytochemistry; Retrograde labeling; Dentate gyrus; CA1; Rat (Qiu, K. (702) 287)

WGA–HRP
Suprageniculate nucleus; Superior colliculus; Bilateral projection; Fluorescent tracer; Double-labeled neuron; Light and electron microscopy; Extrageniculate visual system; Cat (Katoh, Y.Y. (669) 298)

WGA-HRP-colloidal gold
Substance P; Synapse; Nucleus tractus solitarius; Paraventricular hypothalamic nucleus; Retrograde tract tracing; Immunohistochemistry; Electron microscopy (Kawano, H. (689) 136)

Wheat germ agglutinin-horseradish peroxidase
Thalamus; Vestibular nucleus; *Phaseolus vulgaris* leucoagglutinin (Shiroyama, T. (704) 130)

Wheel running
NPY; Circadian; Phase shift; Hamster; Suprachiasmatic nucleus (Biello, S.M. (673) 25)

White matter
Free radical; Ischemia; Myelination; O2A lineage; Reactive oxygen species (Husain, J. (698) 86)

Spinal cord; Ventral funiculus; Histology; Motor function; Spontaneous running rat; Permanent microdialysis implantation (Gerin, C. (704) 191)

Whole-cell current
γ-Aminobutyric acid; Glycine; Hippocampus; Post-natal; Tissue-culture; Single-channel current (Fatima-Shad, K. (704) 246)

Whole cell current in response to GABA
Picrotoxin; Convulsion; 2,3-Butanedione monoxime; γ-Aminobutyric acid; Anticonvulsant; 2,3-Butanedione (Brightman, T. (678) 110)

Whole-cell patch
Slice; Hippocampus; Inhibition; $GABA_A$; Chloride accumulation; Fast inhibitory postsynaptic current; Disinhibition (Ling, D.S.F. (670) 142)

Whole-cell patch-clamp
Ion channel; Osmotic effect; Glutamate; γ-Aminobutyric acid; Dissociated neuron; Cell volume (Vreugdenhil, M. (670) 89)

Olfactory receptor neuron; Olfaction; Mixture; Interaction; Transduction; Spiny lobster; Crustacean; Binding (Simon, T.W. (678) 213)

Transplatin; Cisplatin; Ototoxicity; Cochlear outer hair cell; Voltage-dependent calcium channel; Compound action potential (Saito, T. (697) 276)

Coeliac-superior mesenteric ganglia; Perforated patch; M-Current; A-Current; Ca^{2+}-activated K^+ current; Delayed rectifier K^+ current; 4-Aminopyridine; Tetraethylammonium; Muscarinic agonist (Carrier, G.O. (701) 1)

Whole cell recording
Metabotropic glutamate receptor; APB; L-2-Amino-4-phosphonobutyric acid; ON bipolar cell; Electroretinogram (Thoreson, W.B. (676) 93)

Caffeine; Dissociated outer hair cell; Guinea-pig cochlea; K^+ current; Intracellular Ca^{2+} store (Yamamoto, T. (677) 89)

Neurotensin; Substantia nigra; Dopaminergic neuron; Cationic current; Inwardly rectifying potassium current; G-protein; Inositol 1,4,5-trisphosphate (Wu, T. (683) 242)

Whole-cell voltage-clamp
κ-Opioid receptor; Dynorphin; AMPA/kainate receptor; Rat spinal dorsal horn neuron (Kolaj, M. (671) 227)

Alzheimer's disease; Hippocampal neuron; Leak membrane conductance; Amyloid β peptide; β-sheet structure; Aging; Circular dichroism spectroscopy (Li, W.Y. (682) 207)

Xenopus oocyte; Glycine receptor; α1 Subunit; α2 Subunit; Protein kinase C (Nishizaki, T. (687) 214)

Wilson disease
Copper; Manganese; Molybdenum; Rubidium; Zinc; Long-Evans Cinnamon rat; Brain (Saito, T. (695) 240)

WIN 35,428
Dopamine transporter; Cocaine receptor; RTI-55; Quantitative autoradiography; Dopamine metabolism; Dopamine uptake (Coulter, C.L. (690) 217)

WIN 55,212-2
Cannabinoid; Dentate gyrus; Synaptic potential; Paired-pulse facilitation; Perforant path (Kirby, M.T. (688) 114)

WIN 62577
Spontaneous alternation performance; Substance P; NK-1 receptor; Mouse (Ukai, M. (673) 335)

Wistar rat
WKY rat; Osmoreception; Immediate-early gene; Paraventricular hypothalamus; Supraoptic nucleus; Lamina terminalis; Area postrema (Rowland, N.E. (675) 127)

Hypothalamic paraventricular nucleus; Morphometry; Stress; Synaptic organization; Vascularity (Mulders, W.H.A.M. (689) 47)

Hypothalamic paraventricular nucleus; Corticotropin-releasing hormone; Fos-immunoreactivity; Pharmacogenetics; Selective breeding; Stress (Mulders, W.H.A.M. (689) 61)

Hippocampal granule cell; Amygdala; Kindling; Sprague-Dawley rat; Colchicine (Tsunoda, K. (691) 18)

***Wisteria floribunda* agglutinin**
Amygdala; *Macaca mulatta*; Extracellular matrix; Calcium-binding protein; γ-Aminobutyric acid; Double labelling (Härtig, W. (698) 265)

Withdrawal
N-Methyl-D-aspartate; Morphine; MK-801; Haloperidol; Dependence (Kreeger, J.S. (672) 83)

Cannabinoid; Opioid; Tetrahydrocannabinol; Analgesia; Perinatal; Behavior (Vela, G. (680) 142)

Nucleus accumbens; MDMA; Ecstasy; Striatum; Drug abuse; Cocaine (White, S.R. (681) 167)

Dopamine neuron; Ethanol; Depolarization block; Anesthesia (Diana, M. (682) 29)

Ethanol; Hippocampus; *N*-Methyl-D-aspartate; CGP39551; Magnesium; Field potential (Ripley, T.L. (699) 1)

Withdrawal syndrome
Hypoxia/hypoglycemia; Ethanol; 2-Deoxyglucose; Chronic treatment; Tolerance (Shibata, S. (673) 320)

Morphine; Rostral ventrolateral medulla; Voltammetry, in vivo; Excitatory amino acid; Naloxone; Opioid (Wang, L. (697) 130)

WKY rat
Wistar rat; Osmoreception; Immediate-early gene; Paraventricular hypothalamus; Supraoptic nucleus; Lamina terminalis; Area postrema (Rowland, N.E. (675) 127)

Working memory
σ site; (+)-SKF 10,047; (−)-SKF 10,047; Phencyclidine (PCP) site; *N*-Methyl-D-aspartate receptor; MK-801; Hippocampus (Ohno, M. (684) 237)

X

Xanomeline
Phosphoinositide turnover; M_1 selective agonist; Rat brain; Conformational analysis; Antagonist (Periyasamy, S. (693) 118)

Xenopus
Tryptophan hydroxylase; Circadian; Melatonin; Serotonin; Retina; Light; Dopamine (Green, C.B. (677) 283)

Xenopus laevis
GAP-43; Neuromodulin; B-50; Expression; Phylogeny; Tetraploidy (Shain, D.H. (697) 241)

***Xenopus* oocyte**
Pentylenetetrazol; Seizure-related gene; 3′ Untranslated region; Calcium current (Kajiwara, K. (671) 170)

Serotonin 5-HT_3 receptor; Cocaine; Competitive inhibition; Voltage-clamp (Fan, P. (673) 181)

Glycine receptor; α1 Subunit; α2 Subunit; Protein kinase C; Whole-cell voltage clamp (Nishizaki, T. (687) 214)

Y

Y10B antibody
Cell death; Auditory system; Nucleus magnocellularis; Protein synthesis; Afferent deprivation; Brain slice (Hyson, R.L. (672) 196)

Y chromosome
Aggression; Hippocampus; Mossy fiber; Mouse (Hensbroek, R.A. (682) 203)

Y79 retinoblastoma
Hydroxyindole-*O*-methyltransferase; Melatonin; Pineal; Retina; Tissue-specific (Bernard, M. (696) 37)

Z

lacZ
Neurotrophin-3; Gene targeting; *trk*C; Spinal cord; Sensory neuron (Tojo, H. (669) 163)

Zebra finch
Aromatase; Song control; Estradiol; Neuron (Merten, M.D.P. (671) 317)

Song control nucleus; Male sexual behavior; Immunocytochemistry; Volume reconstruction; *Taeniopygia guttata* (Ball, G.F. (699) 83)

Zellweger syndrome
Peroxisome; Peroxisomal membrane protein; PMP 22; Immunohistochemistry; Brain development (Miyawaki, T. (700) 285)

Zeta (ζ) receptor
Opioid receptor; Eye; Enkephalin; Growth; Cell renewal; Evolution; Neuropeptide; Immunocytochemistry (Zagon, I.S. (671) 105)

Zinc
Nerve growth factor receptor; ICC; Mossy fiber; Septal lesion (Yu, C. (672) 55)

ATP; Dopamine release; Intracellular Ca^{2+} concentration; ATP-activated current; PC12 cells (Koizumi, S. (673) 75)

Hippocampus; Slice culture; 4-Aminopyridine; $GABA_A$ depolarizing potential; $GABA_A$ hyperpolarizing potential; Epileptiform activity (Ricciardi, T.N. (680) 80)

Brain; Manganese; Biological half-life; Zinc-containing neuron terminal (Takeda, A. (695) 53)

Copper; Manganese; Molybdenum; Rubidium; Long-Evans Cinnamon rat; Brain; Wilson disease (Saito, T. (695) 240)

Zinc-containing neuron terminal
Brain; Zinc; Manganese; Biological half-life (Takeda, A. (695) 53)

Zinc protoporphyrin-IX
Carbon monoxide; Hemoxygenase; Metabotropic glutamate receptor; Formalin test (Yamamoto, T. (704) 256)

$ZnSO_4$
Olfactory epithelium; Olfactory neuron; Trauma-induced regeneration; Olfactory marker protein; Tissue culture; Chemical trauma; Differentiation (Sosnowski, J.S. (702) 37)

Zolantidine
Conditioned place preference; Morphine; L-Histidine; α-Fluoromethylhistidine (α-FMH); SCH 23390; DA turnover (Suzuki, T. (675) 195)

Zona incerta
Substantia innominata; Basalis nucleus of Meynert; Cerebral blood flow; Autoradiography; Electrical stimulation; Alzheimer's disease (Vaucher, E. (691) 57)

Zucker
Rat; Hypothalamus; Neuropeptide Y; Obesity (Dryden, S. (690) 185)

Zucker rat
Obesity; Hyperphagia; Cyclo(His-Pro); Dehydroepiandrosterone (Prasad, C. (699) 149)

DEVELOPMENTAL BRAIN RESEARCH
SUBJECT INDEX
1995
VOLUMES 84–90

A

Abbondanza, A., see Battelli, M.G. (86) 340
Ackermann, M.R., see Iqbal, J. (85) 151
Adam, H., see Bauer, H. (86) 317
Adamson, S.L., see Tai, T.-C. (86) 7
Adelson, P.D., Hovda, D.A., Villablanca, J.R. and Tatsukawa, K.
Development of a crossed corticotectal pathway following cerebral hemispherectomy in cats: a quantitative study of the projecting neurons (86) 81
Agoston, D.V., Palkovits, C.G., Fitzgerald, S.F. and Brenneman, D.E.
Developmental changes in the inducibility of *fos*-like immunoreactivity in primary embryonic spinal cord cultures (89) 173
Ahmad, I.
Mash-1 is expressed during ROD photoreceptor differentiation and binds an E-box, $E_{opsin\text{-}1}$ in the rat opsin gene (90) 184
Ahmed, A.K.M.F., Sugioka, K., Dong, K. and Yamadori, T.
A study of double-labeled retinal ganglion cells from the superior colliculus in the developing albino rat (85) 71
Akagawa, K., see Araki, M. (89) 103
Akiyama, K., see Ono, Y. (86) 1
Al-Sarraf, H., Preston, J.E. and Segal, M.B.
The entry of acidic amino acids into brain and CSF during development, using in situ perfusion in the rat (90) 151
Al-Sarraf, H., see Preston, J.E. (87) 69
Albrecht, D., see Gloveli, T. (87) 145
Allende, M.L. and Panzetta, P.
Complex gangliosides affect GD_3 accessibility to antibody in developing neuronal cells (90) 102
Allred, E., see Tsuji, M. (85) 192
Andersen, D.L., Tannenberg, A.E.G., Burke, C.J. and Dodd, P.R.
Developmental rearrangements of cortical glutamate-NMDA receptor binding sites in late human gestation (88) 178
Andersen, S.L., see Teicher, M.H. (89) 167
Andreopoulos, S., Li, P.P. and Warsh, J.J.
Developmental expression of $G\alpha_o$ and $G\alpha_s$ isoforms in PC12 cells: relationship to neurite outgrowth (88) 30
Aotani, H., see Ohno, M. (84) 294
Arai, Y., Mizuguchi, M., Ikeda, K. and Takashima, S.
Developmental changes of apolipoprotein E immunoreactivity in Down syndrome brains (87) 228
Araki, M., Tonè, S., Akagawa, K. and Kimura, H.
High potassium promotes differentiation of retinal neurons but does not favor rod differentiation (89) 103
Arce, E.A., Rhoades, R.W. and Mooney, R.D.
Effects of neonatal and adult enucleation on the synaptic organization of the serotoninergic projection to the superficial gray layer of the hamster's superior colliculus (90) 168
Arcelli, P., see Frassoni, C. (90) 111
Ardito, T.A., see Ment, L.R. (84) 142
Arends, J.J.A., see Brown, K.E. (86) 335
Arias, P., Feleder, C., Rodríguez, M., Ginzburg, M., Refojo, D., Szwarcfarb, B. and Moguilevsky, J.A.
Repeated intracerebroventricular administration of taurine lowers LH levels and postpones vaginal opening in peripubertal female rats (85) 137
Arnault, P., see Garnier, C. (89) 1
Arnold, A.P., see Jordan, C.L. (84) 225
Astic, L., see Giannetti, N. (84) 287
Avila, J., see Rocha, M.G. (89) 47
Azmitia, E.C., see Zhou, F.C. (84) 89

B

Bagnoli, P., see Casini, G. (84) 233
Baiardi, P., see Candura, S.M. (86) 134
Baird, A., see Luo, L. (86) 24
Balázs, R., see Hack, N.J. (87) 55
Bao, H., Bradley, R.M. and Mistretta, C.M.
Development of intrinsic electrophysiological properties in neurons from the gustatory region of rat nucleus of solitary tract (86) 143
Barker, J.L., see Valeyev, A.Y. (85) 280
Barnes, G.A., see Slotkin, T.A. (88) 17
Barrington, J., see O'Dowd, B.S. (88) 220
Barrow Heaton, M., Carlin, M., Paiva, M. and Walker, D.W.
Perturbation of target-directed neurite outgrowth in embryonic CNS co-cultures grown in the presence of ethanol (89) 270
Baruah, S., see Miller, M.W. (87) 22
Bastianelli, E. and Pochet, R.
Calmodulin, calbindin-D28k, calretinin and neurocalcin in rat olfactory bulb during postnatal development (87) 224
Batshaw, M.L., see Robinson, M.B. (90) 35
Battelli, M.G., Buonamici, L., Abbondanza, A., Virgili, M., Contestabile, A. and Stirpe, F.
Excitotoxic increase of xanthine dehydrogenase and xanthine oxidase in the rat olfactory cortex (86) 340
Baudry, M., see Hayashi, Y. (87) 96
Bauer, H., Sonnleitner, U., Lametschwandtner, A., Steiner, M., Adam, H. and Bauer, H.C.
Ontogenic expression of the erythroid-type glucose transporter (Glut 1) in the telencephalon of the mouse: correlation to the tightening of the blood–brain barrier (86) 317
Bauer, H.C., see Bauer, H. (86) 317
Bautista, J.R., Rubin, S.A., Moran, T.H., Schwartz, G.J. and Carbone, K.M.
Developmental injury to the cerebellum following perinatal Borna disease virus infection (90) 45
Baxi, L.V., see Tharakan, T. (84) 26
Bay, B.-H., see Stoker, A.W. (90) 129
Beattie, C.E., Kolva, B. and Siegel, R.E.
$GABA_A$ receptor subunit mRNA expression in the weaver cerebellum: modulation by cell–cell interactions (88) 171
Beattie, M.S., see Crowe, M.J. (86) 155
Beauvillain, J.C., see Mitchell, V. (86) 67
Bennett-Clarke, C.A., see Chiaia, N.L. (84) 271
Bennett, M.R., see Huxlin, K.R. (84) 77
Bergervoet-Vernooij, H.W.M., see Curfs, M.H.J.M. (87) 214
Berman, N.E.J., see Grant, S. (88) 132
Berman, N.E.J., see Sellner, P.A. (89) 33
Bertolotto, A., Manzardo, E., Iudicello, M., Guglielmone, R. and Riccio, A.
Keratan sulphate is a marker of differentiation of ramified microglia (86) 233
Beyreuther, K., see Clarris, H.J. (88) 87
Bielarczyk, H., see Tian, X. (86) 268
Binns, K.E., Withington, D.J. and Keating, M.J.
The developmental emergence of the representation of auditory azimuth in the external nucleus of the inferior colliculus of the guinea-pig: the effects of visual and auditory deprivation (85) 14
Birdsall, N.J.M., see Court, J.A. (90) 159
Black, I.B., see Schoups, A.A. (86) 326
Bledsoe, S., see Zhou, F.C. (84) 89
Blue, M.E. and Johnston, M.V.
The ontogeny of glutamate receptors in rat barrel field cortex (84) 11
Blum, M., see Weickert, C.S. (86) 203
Bohn, M.C., see Choi-Lundberg, D.L. (85) 80
Bolan, A.L., see Sheedlo, H.J. (85) 171
Bona, E., see McRae, A. (84) 245
Bornstein, M.B., see Roth, G.A. (88) 102
Botchkina, G.I. and Morin, L.P.
Ontogeny of radial glia, astrocytes and vasoactive intestinal peptide immunoreactive neurons in hamster suprachiasmatic nucleus (86) 48
Bourjeily, N., see Tian, X. (86) 268
Bradley, R.M., see Bao, H. (86) 143
Brand, T., see Swaab, D.F. (85) 273
Braun, K., see Hofmann, H. (86) 283
Braun, N., Brendel, P. and Zimmermann, H.
Distribution of 5′-nucleotidase in the developing mouse retina (88) 79
Brees, D.K., see Kelly, M.M. (85) 31
Brendel, P., see Braun, N. (88) 79
Brenneman, D.E., see Agoston, D.V. (89) 173
Bresnahan, J.C., see Crowe, M.J. (86) 155
Brown, K.E., Arends, J.J.A., Wasserstrom, S.P., Zantua, J.B., Jacquin, M.F. and Woolsey, T.A.
Developmental transformation of dendritic arbors in mouse whisker thalamus (86) 335
Brown, T.J., see Crowe, M.J. (86) 155
Brundin, P., see Nakao, N. (90) 92
Brunjes, P.C., see Cummings, D.M. (88) 148
Brunjes, P.C., see Klintsova, A.Y. (86) 114
Brunjes, P.C., see Paternostro, M.A. (84) 1
Brunjes, P.C., see Paternostro, M.A. (85) 303
Brunso-Bechtold, J.K., see Niblock, M.M. (85) 288
Bulcourf, B.B., see Lasiter, P.S. (89) 289
Buonamici, L., see Battelli, M.G. (86) 340
Burek, M.J., Nordeen, K.W. and Nordeen, E.J.
Estrogen promotes neuron addition to an avian song-control nucleus by regulating post-mitotic events (85) 220
Burke, C.J., see Andersen, D.L. (88) 178
Buwalda, B., De Groote, L., Van der Zee, E.A., Matsuyama, T. and Luiten, P.G.M.
Immunocytochemical demonstration of developmental distribution of muscarinic

acetylcholine receptors in rat parietal cortex (84) 185

C

Calderó, J., see Ciutat, D. (86) 167
Callebaut, D.P., see Wang, J.M. (90) 17
Cambray-Deakin, M.A., see Przyborski, S.A. (87) 29
Cambray-Deakin, M.A., see Przyborski, S.A. (89) 187
Candura, S.M., Tonini, M., Baiardi, P., Manzo, L. and Costa, L.G.
Heterogeneity of cholinergic muscarinic receptors coupled to phosphoinositide metabolism in immature rat brain (86) 134
Cañete Soler, R., Gui, Y.-H., Linask, K.K. and Muschel, R.J.
MMP-9 (gelatinase B) mRNA is expressed during mouse neurogenesis and may be associated with vascularization (88) 37
Capriotti, C., see Yip, J.W. (86) 297
Carbone, K.M., see Bautista, J.R. (90) 45
Carlin, M., see Barrow Heaton, M. (89) 270
Carmant, L., Liu, Z., Werner, S.J., Mikati, M.A. and Holmes, G.L.
Effect of kainic acid-induced status epilepticus on inositol-trisphosphate and seizure-induced brain damage in mature and immature animals (89) 67
Carr, R., see Huxlin, K.R. (84) 77
Casini, G., Molnar, M., Davis, B.M. and Bagnoli, P.
Posthatching development of preproenkephalin mRNA-expressing cell populations in the pigeon telencephalon (84) 233
Caston, J., Vasseur, F., Stelz, T., Chianale, C., Delhaye-Bouchaud, N. and Mariani, J.
Differential roles of cerebellar cortex and deep cerebellar nuclei in the learning of the equilibrium behavior: studies in intact and cerebellectomized lurcher mutant mice (86) 311
Catterall, W.A., see Wood, M.R. (88) 194
Challis, J.R.G., see Matthews, S.G. (86) 259
Chan, K., see Ross, M.G. (87) 120
Chang, K.S., see Mickley, G.A. (85) 119
Charli, J.-L., Cruz, C., Redondo, J.L., Guerra, C. and Joseph-Bravo, P.
Homologous conditioned medium enhances expression of TRH in hypothalamic neurons in primary culture (89) 155
Cherubini, E., see Virginio, C. (87) 153
Chiaia, N.L., Rhoades, R.W. and Bennett-Clarke, C.A.
Neonatal infraorbital nerve transection and blockade of axoplasmic transport reduce expression of acetylcholinesterase by thalamocortical axons (84) 271
Chianale, C., see Caston, J. (86) 311
Chiu, F.-C., see Rozental, R. (85) 161
Choi-Lundberg, D.L. and Bohn, M.C.
Ontogeny and distribution of glial cell line-derived neurotrophic factor (GDNF) mRNA in rat (85) 80
Chu, W., see Sellner, P.A. (89) 33
Ciutat, D., Esquerda, J.E. and Calderó, J.
Evidence for calcium regulation of spinal cord motoneuron death in the chick embryo in vivo (86) 167
Clarris, H.J., Key, B., Beyreuther, K., Masters, C.L. and Small, D.H.
Expression of the amyloid protein precursor of Alzheimer's disease in the developing rat olfactory system (88) 87
Clegg, D.A., O'Hara, B.F., Heller, H.C. and Kilduff, T.S.
Nicotine administration differentially affects gene expression in the maternal and fetal circadian clock (84) 46
Clementi, F., see Court, J.A. (90) 159
Coen, E.P., see Wang, J.M. (90) 17
Cole, G.J., see Kelly, M.M. (85) 31
Collard, K.J., see Jennings, P. (89) 120
Collin, J.-P., see Grechez-Cassiau, A. (88) 204
Contestabile, A., see Battelli, M.G. (86) 340
Costa, L.G., see Candura, S.M. (86) 134
Costa, L.G., see Tan, X.X. (84) 179
Costa, L.G., see Tan, X.X. (86) 348
Court, J.A., Perry, E.K., Spurden, D., Griffiths, M., Kerwin, J.M., Morris, C.M., Johnson, M., Oakley, A.E., Birdsall, N.J.M., Clementi, F. and Perry, R.H.
The role of the cholinergic system in the development of the human cerebellum (90) 159
Crowe, M.J., Brown, T.J., Bresnahan, J.C. and Beattie, M.S.
Distribution of NADPH-diaphorase reactivity in the spinal cord of metamorphosing and adult *Xenopus laevis* (86) 155
Cruz, C., see Charli, J.-L. (89) 155
Cummings, D.M. and Brunjes, P.C.
Migrating luteinizing hormone-releasing hormone (LHRH) neurons and processes are associated with a substrate that expresses S100 (88) 148
Curfs, M.H.J.M., Gribnau, A.A.M., Dederen, P.J.W.C. and Bergervoet-Vernooij, H.W.M.
Transient functional connections between the developing corticospinal tract and cervical spinal interneurons as demonstrated by c-*fos* immunohistochemistry (87) 214
Cynader, M., see Jia, W.W.-G. (85) 109

D

Dahlstrand, J., Lardelli, M. and Lendahl, U.
Nestin mRNA expression correlates with the central nervous system progenitor cell state in many, but not all, regions of developing central nervous system (84) 109
D'Aniello, B., Pinelli, C., Di Fiore, M.M., Tela, L., King, J.A. and Rastogi, R.K.
Development and distribution of gonadotropin-releasing hormone neuronal systems in the frog (*Rana esculenta*) brain: immunohistochemical analysis (89) 281
Davis, B.M., see Casini, G. (84) 233
Dawson, G., see Mangoura, D. (87) 1
Dawson, G., see Mangoura, D. (87) 12
Day, I.N.M., see Schofield, J.N. (85) 229
De Biasi, S., see Frassoni, C. (90) 111
Dederen, P.J.W.C., see Curfs, M.H.J.M. (87) 214
De Groote, L., see Buwalda, B. (84) 185
De Jongh, K.S., see Wood, M.R. (88) 194
Del Bigio, M.R. and Jacque, C.M.
Localization of proteinase expression in the developing rabbit brain (86) 345
Delhaye-Bouchaud, N., see Caston, J. (86) 311
Delhaye-Bouchaud, N., see Fuhrman, Y. (87) 172
Denavit-Saubié, M., see Riche, D. (89) 139
Dencker, L., see Söderström, S. (85) 96
De Potter, W.P., see Wang, J.M. (90) 17
Deyst, K.A. and Toole, B.P.
Production of hyaluronan-dependent pericellular matrix by embryonic rat glial cells (88) 122
Diaz, D.R., Fleming, D.E. and Rhees, R.W.
The hormone-sensitive early postnatal periods for sexual differentiation of feminine behavior and luteinizing hormone secretion in male and female rats (86) 227
Di Fiore, M.M., see D'Aniello, B. (89) 281
Djuricic, B., see Paschen, W. (86) 359
Dodd, P.R., see Andersen, D.L. (88) 178
Doering, L.C., Roder, J.C. and Henderson, J.T.
Ciliary neurotrophic factor promotes the terminal differentiation of v-*myc* immortalized sympathoadrenal progenitor cells in vivo (89) 56
DonCarlos, L.L., McAbee, M., Ramer-Quinn, D.S. and Stancik, D.M.
Estrogen receptor mRNA levels in the preoptic area of neonatal rats are responsive to hormone manipulation (84) 253
Dong, K., see Ahmed, A.K.M.F. (85) 71
Dow-Edwards, D.L., see Frick, G.S. (88) 158
Dow, K.E. and Sugiura, M.
Signal transduction mechanisms subserving activity-dependent release of neuronal proteoglycans (89) 320
Dreyer, J.-L., see Yong, Y. (89) 235
Dreyer, J.-L., see Yong, Y. (89) 253
Drukarch, B., see Van Muiswinkel, F.L. (85) 128
Dudek, S.M. and Johnson, G.V.W.
Postnatal changes in serine/threonine protein phosphatases and their association with the microtubules (90) 54
Dunaway, G.A., see Mhaskar, Y. (85) 54
Dunlap, V.S., see Valeyev, A.Y. (85) 280
Dux, E., see Paschen, W. (86) 359

E

Ebendal, T., see Söderström, S. (85) 96
Ebrahimi-Gaillard, A., see Garnier, C. (89) 1

Edwards, Y.H., see Schofield, J.N. (85) 229
Elliott, R.C., see Schoups, A.A. (86) 326
Elmquist, J.K., see Iqbal, J. (85) 151
Elshourbagy, N.A., see Lysko, P.G. (88) 96
Enokido, Y., see Kubo, T. (85) 249
Epelbaum, J., see Gardette, R. (86) 123
Eriksson, P.S., Nilsson, M. and Matejka, G.L.
Distribution and development of $G_{\alpha i\text{-}2}$ mRNA in the rat cerebral cortex investigated with in situ hybridization and RNAse protection assay (84) 208
Esquerda, J.E., see Ciutat, D. (86) 167
Eustache, I. and Gueritaud, J.P.
Electrical properties of embryonic rat brainstem motoneurones in organotypic slice culture (86) 187

F

Faivre-Bauman, A., see Gardette, R. (86) 123
Farrell, S.T., see Mickley, G.A. (85) 119
Febvret-Muzerelle, A., see Verney, C. (89) 115
Feleder, C., see Arias, P. (85) 137
Fitzgerald, S.F., see Agoston, D.V. (89) 173
Fleming, D.E., see Diaz, D.R. (86) 227
Florence, S.L., see Jain, N. (90) 24
Foehring, R.C., see Lorenzon, N.M. (84) 192
Foutz, A.S., see Riche, D. (89) 139
Frankfurt, M., see Lewis, C. (87) 91
Frassoni, C., Arcelli, P., Regondi, M.C., Selvaggio, M., De Biasi, S. and Spreafico, R.
Branching pattern of corticothalamic projections from the somatosensory cortex during postnatal development in the rat (90) 111
Fredriksson, A., see Söderström, S. (85) 96
Frick, G.S. and Dow-Edwards, D.L.
The effects of cocaine on cerebral metabolic function in periweanling rats: the roles of serotonergic and dopaminergic uptake blockade (88) 158
Friedman, W.J., see Schoups, A.A. (86) 326
Friedrich, G., see Scherer, J. (89) 214
Fritschy, J.-M., see Gao, B. (88) 1
Fuhrman, Y., Piat, G., Thomson, M.A., Mariani, J. and Delhaye-Bouchaud, N.
Abnormal ipsilateral functional vibrissae projection onto Purkinje cells multiply innervated by climbing fibers in the rat (87) 172
Fujisawa, H., see Hirata, T. (85) 201
Fukuda, M., see Morimoto, T. (84) 204
Funa, K., see Nakao, N. (90) 92

G

Gaiarsa, J.-L. and Heimrich, B.
Restoration of mossy fiber projection in slice co-cultures of dislocated dentate gyrus and degranulated hippocampus (86) 250
Gallo, G. and Pollack, E.D.
Cyclic remodelling of growth cone lamellae and the effect of target tissue (85) 140
Gao, B. and Fritschy, J.-M.
Cerebellar granule cells in vitro recapitulate the in vivo pattern of $GABA_A$-receptor subunit expression (88) 1
García-Arrarás, J.E., see Ramírez-Ordóñez, R. (87) 160
Gardette, R., Faivre-Bauman, A., Loudes, C., Kordon, C. and Epelbaum, J.
Modulation by somatostatin of glutamate sensitivity during development of mouse hypothalamic neurons in vitro (86) 123
Garnier, C., Arnault, P., Ebrahimi-Gaillard, A., Létang, J. and Roger, M.
The topographic distribution of the efferents from neocortical neurons is not only dependent upon where in the neocortex the cells develop. A transplantation study within one single neocortical region (89) 1
Garris, D.R.
Developmental and regional changes in brain norepinephrine levels in diabetic C57BL/KsJ mice: effects of estradiol and progesterone (89) 314
Gaspar, P., see Verney, C. (89) 115
Gebhard, D., see Rozental, R. (85) 161
Gehrig, B., see Stoker, A.W. (90) 129
Gershon, M.D., see Tharakan, T. (84) 26
Giacobini, M.M.J., Zetterström, R.H., Young, D., Hoffer, B., Sara, V. and Olson, L.
IGF-1 influences olfactory bulb maturation. Evidence from anti-IGF-1 antibody treatment of developing grafts in oculo (84) 67
Giannetti, N., Pellier, V., Oestreicher, A.B. and Astic, L.
Immunocytochemical study of the differentiation process of the septal organ of Masera in developing rats (84) 287
Gilland, E., see McRae, A. (84) 245
Gilliam, D.M., see Miller, M.W. (87) 22
Ginzburg, M., see Arias, P. (85) 137
Glatz, J.F.C., see Sellner, P.A. (89) 33
Gloveli, T., Albrecht, D. and Heinemann, U.
Properties of low Mg^{2+} induced epileptiform activity in rat hippocampal and entorhinal cortex slices during adolescence (87) 145
Gold, L.H., see Heyser, C.J. (89) 264
Gonzalez, M.F., see Wu, C.-C. (87) 62
Gordon, I., Weizman, R., Rosenne, E. and Rehavi, M.
Developmental and age-related alterations in rat brain presynaptic dopaminergic mechanisms (85) 225
Goshima, Y., see Xie, R. (87) 77
Goto, M., see Yoshida, Y. (85) 25
Grant, S. and Berman, N.E.J.
Late loss of connections during callosal development in Siamese cats (88) 132
Grechez-Cassiau, A., Grève, P., Guerlotté, J., Collin, J.-P. and Voisin, P.
Hydroxyindole-*O*-methyltransferase gene expression in the pineal gland of chicken embryo: development of messenger RNA levels and regulation by serum (88) 204
Greenfield, S.A., see Holmes, C. (88) 212
Greensmith, L., see Kerai, B. (85) 89
Greger, B.E., see Li, C.-P. (89) 227
Grève, P., see Grechez-Cassiau, A. (88) 204
Gribnau, A.A.M., see Curfs, M.H.J.M. (87) 214
Griffiths, M., see Court, J.A. (90) 159
Grumet, M., see Sakurai, T. (85) 301
Gueritaud, J.P., see Eustache, I. (86) 187
Guerlotté, J., see Grechez-Cassiau, A. (88) 204
Guerra, C., see Charli, J.-L. (89) 155
Guglielmone, R., see Bertolotto, A. (86) 233
Gui, Y.-H., see Cañete Soler, R. (88) 37
Guillet, R.
Neonatal caffeine exposure alters seizure susceptibility in rats in an age-related manner (89) 124
Guo, Y., see Kaplan, I.V. (90) 174

H

Hack, N.J., Sluiter, A.A. and Balázs, R.
AMPA receptors in cerebellar granule cells during development in culture (87) 55
Hadley, R.D. and Miller, J.D.
The regulation of acetylated microtubules during outgrowth from cultured neurons of the snail, *Helisoma* (89) 129
Hagberg, H., see McRae, A. (84) 245
Hahn, W.E., see Owens, G.P. (86) 35
Hamill, K., see Roth, G.A. (88) 102
Hannigan, J.H., see Saunders, D.E. (86) 16
Haring, J.H., see Yan, W. (90) 194
Harvey, A.T. and Hennessy, M.B.
Corticotropin-releasing factor modulation of the ultrasonic vocalization rate of isolated rat pups (87) 125
Hatanaka, H., see Kubo, T. (85) 249
Hauswirth, W.W., see Van Ginkel, P.R. (89) 146
Hayashi, K., see Kobayashi, S. (90) 122
Hayashi, S., see Yokosuka, M. (84) 99
Hayashi, Y. and Baudry, M.
Effect of kainate-induced seizure activity on the polyamine interconversion pathway in juvenile rat brain (87) 96
He, H.-J., see Sircar, R. (88) 224
Heaton, M.B., Paiva, M., Swanson, D.J. and Walker, D.W.
Alterations in responsiveness to ethanol and neurotrophic substances in fetal septohippocampal neurons following chronic prenatal ethanol exposure (85) 1
Heimrich, B., see Gaiarsa, J.-L. (86) 250
Heinemann, U., see Gloveli, T. (87) 145
Heller, H.C., see Clegg, D.A. (84) 46
Henderson, J.T., see Doering, L.C. (89) 56
Henkel, C.K., see Niblock, M.M. (85) 288
Hennessy, M.B., see Harvey, A.T. (87) 125
Hertz, E., see O'Dowd, B.S. (88) 220

Hertz, L., see O'Dowd, B.S. (88) 220
Heyes, M.P., see Robinson, M.B. (90) 35
Heyser, C.J., Wilson, M.C. and Gold, L.H.
Coloboma hyperactive mutant exhibits delayed neurobehavioral developmental milestones (89) 264
Hill, C.E., see Vidovic, M. (89) 309
Hirata, T., Kasugai, T., Morii, E., Hirota, S., Nomura, S., Fujisawa, H. and Kitamura, Y.
Characterization of c-*kit*-positive neurons in the dorsal root ganglion of mouse (85) 201
Hirota, S., see Hirata, T. (85) 201
Hoebel, B.G., see Jones, A.P. (88) 127
Hoffer, B., see Giacobini, M.M.J. (84) 67
Hoffman, S.N. and Prince, D.A.
Epileptogenesis in immature neocortical slices induced by 4-aminopyridine (85) 64
Hofmann, H. and Braun, K.
Slice cultures of the imprinting-relevant forebrain area MNH of the domestic chick: quantitative characterization of neuronal morphology (86) 283
Holmes, C., Jones, S.A. and Greenfield, S.A.
The influence of target and non-target brain regions on the development of mid-brain dopaminergic neurons in organotypic slice culture (88) 212
Holmes, G.L., see Carmant, L. (89) 67
Holtzman, D., see Tsuji, M. (85) 192
Hong, J.S., see Pennypacker, K.R. (86) 242
Hopkins, K., see Robinson, M.B. (90) 35
Hostetter Jr., J.C., see Teicher, M.H. (89) 167
Houtsmuller, E.J., see Swaab, D.F. (85) 273
Hovda, D.A., see Adelson, P.D. (86) 81
Hovda, D.A., see Loopuijt, L.D. (85) 259
Howard, B.D., see Wu, C.-f. (86) 217
Hudson, P.M., see Pennypacker, K.R. (86) 242
Humpel, C., see Strömberg, I. (84) 215
Hunter, S.E., Seibenhener, M.L. and Wooten, M.W.
Atypical ζ-protein kinase c displays a unique developmental expression pattern in rat brain (85) 239
Huxlin, K.R., Carr, R., Schulz, M., Sefton, A.J. and Bennett, M.R.
Trophic effect of collicular proteoglycan on neonatal rat retinal ganglion cells in situ (84) 77

I

Ikeda, K., see Arai, Y. (87) 228
Inoue, H.K., see Kobayashi, S. (90) 122
Inoue, Y., see Ono, Y. (86) 1
Iqbal, J. and Jacobson, C.D.
Ontogeny of arginine vasopressin-like immunoreactivity in the Brazilian opossum brain (89) 11
Iqbal, J. and Jacobson, C.D.
Ontogeny of oxytocin-like immunoreactivity in the Brazilian opossum brain (90) 1
Iqbal, J., Elmquist, J.K., Ross, L.R., Ackermann, M.R. and Jacobson, C.D.
Postnatal neurogenesis of the hypothalamic paraventricular and supraoptic nuclei in the Brazilian opossum brain (85) 151
Isa, K., see Kobayashi, S. (90) 122
Isahara, K. and Yamamoto, M.
The interaction of vascular endothelial cells and dorsal root ganglion neurites is mediated by vitronectin and heparan sulfate proteoglycans (84) 164
Isobe, Y., Nakajima, K. and Nishino, H.
Arg-vasopressin content in the suprachiasmatic nucleus of rat pups: circadian rhythm and its development (85) 58
Itzhak, Y., Roig-Cantisano, A. and Norenberg, M.D.
Ontogeny of peripheral-type benzodiazepine receptors in cultured astrocytes and brain from rat (84) 62
Iudicello, M., see Bertolotto, A. (86) 233

J

Jackson III, G.F., Villablanca, J.R. and Loopuijt, L.D.
Few neocortial and thalamic morphological changes after a neonatal frontal cortical ablation contrast with the effects of a similar lesion in fetal cats (90) 62
Jacobson, C.D., see Iqbal, J. (85) 151
Jacobson, C.D., see Iqbal, J. (89) 11
Jacobson, C.D., see Iqbal, J. (90) 1
Jacque, C.M., see Del Bigio, M.R. (86) 345
Jacquin, M.F., see Brown, K.E. (86) 335
Jain, N., Florence, S.L. and Kaas, J.H.
GAP-43 expression in the medulla of macaque monkeys: changes during postnatal development and the effects of early median nerve repair (90) 24
Jaynes, D., see Sheedlo, H.J. (85) 171
Jennings, P. and Collard, K.J.
Postnatal development of the calcium-dependency of glutamate release from rat cortical synaptosomes: comparison with 5-hydroxytryptamine release (89) 120
Jensen, F., see Tsuji, M. (85) 192
Jia, W.W.-G., Liu, Y. and Cynader, M.
Postnatal development of inositol 1,4,5-trisphosphate receptors: a disparity with protein kinase C (85) 109
Jiang, Z.-G. and Smith, R.A.
Regulation by nerve growth factor of neuropeptide phenotypes in primary cultured sensory neurons prepared from aged as well as adult mice (90) 190
Jiang, Z.-G., Smith, R.A. and Neilson, M.M.A.
The effects of nerve growth factor on neurite outgrowth from cultured adult and aged mouse sensory neurons (85) 212
Johnson, G.V.W., see Dudek, S.M. (90) 54
Johnson, M., see Court, J.A. (90) 159
Johnston, M.V., see Blue, M.E. (84) 11
Jones, A.P., Pothos, E.N., Rada, P., Olster, D.H. and Hoebel, B.G.
Maternal hormonal manipulations in rats cause obesity and increase medial hypothalamic norepinephrine release in male offspring (88) 127
Jones, S.A., see Holmes, C. (88) 212
Jongenelen, C.A.M., see Van Muiswinkel, F.L. (85) 128
Jordan, C.L., Watamura, S. and Arnold, A.P.
Androgenic, not estrogenic, steroids alter neuromuscular synapse elimination in the rat levator ani (84) 225
Joseph-Bravo, P., see Charli, J.-L. (89) 155

K

Kaas, J.H., see Jain, N. (90) 24
Kalb, R.G., see Maier, D.L. (87) 135
Kanazir, S., see Milosevic, A. (84) 282
Kaplan, I.V., Guo, Y. and Mower, G.D.
Developmental expression of the immediate early gene EGR-1 mirrors the critical period in cat visual cortex (90) 174
Kasugai, T., see Hirata, T. (85) 201
Kato, M., Mizuguchi, M. and Takashima, S.
Developmental changes of heat shock protein 73 in human brain (86) 180
Kawamura, K., see Kawano, H. (86) 101
Kawano, H., Ohyama, K., Kawamura, K. and Nagatsu, I.
Migration of dopaminergic neurons in the embryonic mesencephalon of mice (86) 101
Keating, M.J., see Binns, K.E. (85) 14
Kelly, M.M., Phanhthourath, C., Brees, D.K., McCabe, C.F. and Cole, G.J.
Molecular characterization of EAP-300: a high molecular weight, embryonic polypeptide containing an amino acid repeat comprised of multiple leucine-zipper motifs (85) 31
Kerai, B., Greensmith, L., Vrbová, G. and Navarrete, R.
Effect of transient neonatal muscle paralysis on the growth of soleus motoneurones in the rat (85) 89
Kerwin, J.M., see Court, J.A. (90) 159
Key, B., see Clarris, H.J. (88) 87
Kida, K., see Morimoto, T. (84) 204
Kilduff, T.S., see Clegg, D.A. (84) 46
Kim, C.-Y., see Ryu, J.H. (87) 101
Kimm, E.J., Perez, C.E., Yu, C.C., Yu, J. and Robertson, R.T.
Reduction of transiently expressed acetylcholinesterase activity in developing thalamocortical projections does not affect the mature pattern of basal forebrain projections to visual cortex (85) 283
Kimura, H., see Araki, M. (89) 103
King, J.A., see D'Aniello, B. (89) 281
Kirchgessner, A.L., see Tharakan, T. (84) 26
Kitamura, Y., see Hirata, T. (85) 201

Klintsova, A.Y., Philpot, B.D. and Brunjes, P.C.
Fos protein immunoreactivity in the developing olfactory bulbs of normal and naris-occluded rats (86) 114
Knipper, M., Zimmermann, U., Rohbock, K., Köpschall, I. and Zenner, H.-P.
Synaptophysin and Gap-43 proteins in efferent fibers of the inner ear during postnatal development (89) 73
Kobayashi, S., Isa, K., Hayashi, K., Inoue, H.K., Uyemura, K. and Shirao, T.
K252a, a potent inhibitor of protein kinases, inhibits the migration of cerebellar granule cells in vitro (90) 122
Kocsis, J.D., see Lankford, K.L. (84) 151
Kolva, B., see Beattie, C.E. (88) 171
Köpschall, I., see Knipper, M. (89) 73
Kordon, C., see Gardette, R. (86) 123
Koziel, V., see Roger, C. (87) 194
Krieglstein, K., see Von Coelln, R. (89) 150
Kubo, T., Nonomura, T., Enokido, Y. and Hatanaka, H.
Brain-derived neurotrophic factor (BDNF) can prevent apoptosis of rat cerebellar granule neurons in culture (85) 249
Kullama, L.K., see Ross, M.G. (87) 120

L

Lametschwandtner, A., see Bauer, H. (86) 317
Lankford, K.L., Rand, M.N., Waxman, S.G. and Kocsis, J.D.
Blocking Ca^{2+} mobilization with thapsigargin reduces neurite initiation in cultured adult rat DRG neurons (84) 151
Lardelli, M., see Dahlstrand, J. (84) 109
Lasiter, P.S. and Bulcourf, B.B.
Alterations in geniculate ganglion proteins following fungiform receptor damage (89) 289
Lavialle, M. and Servière, J.
Developmental study in the circadian clock of the golden hamster: a putative role of astrocytes (86) 275
Lee, H.-J. and Page, C.H.
Motoneuron reinnervation of phasic uropod muscles in crayfish (87) 179
Lendahl, U., see Dahlstrand, J. (84) 109
Leon, M., see Rangel, S. (85) 187
Létang, J., see Garnier, C. (89) 1
Lewis, C., McEwen, B.S. and Frankfurt, M.
Estrogen-induction of dendritic spines in ventromedial hypothalamus and hippocampus: effects of neonatal aromatase blockade and adult GDX (87) 91
Li, C.-P., Olavarria, J.F. and Greger, B.E.
Occipital cortico-pyramidal projection in hypothyroid rats (89) 227
Li, C.-S., see Sircar, R. (88) 224
Li, L., see Xie, R. (87) 77
Li, P.P., see Andreopoulos, S. (88) 30
Linask, K.K., see Cañete Soler, R. (88) 37
Lindvall, O., see Nakao, N. (90) 92
Ling, J.J., Yu, J. and Robertson, R.T.
Sustained inhibition of acetylcholinesterase activity does not disrupt early geniculocortical ingrowth to developing rat visual cortex (86) 354
Liu, Y., see Jia, W.W.-G. (85) 109
Liu, Z., see Carmant, L. (89) 67
Loopuijt, L.D., Villablanca, J.R. and Hovda, D.A.
Morphological changes in the thalamus and neocortex of the cat brain after a restricted unilateral fetal neocortical lesion (85) 259
Loopuijt, L.D., see Jackson III, G.F. (90) 62
Lorber, B.A., see Slotkin, T.A. (88) 17
Lorenzon, N.M. and Foehring, R.C.
Alterations in intracellular calcium chelation reproduce developmental differences in repetitive firing and afterhyperpolarizations in rat neocortical neurons (84) 192
Loudes, C., see Gardette, R. (86) 123
Lovelace, J.D., see Mickley, G.A. (85) 119
Luiten, P.G.M., see Buwalda, B. (84) 185
Luo, L., Moore, J.K., Baird, A. and Ryan, A.F.
Expression of acidic FGF mRNA in rat auditory brainstem during postnatal maturation (86) 24
Lysko, P.G., Elshourbagy, N.A., Pullen, M. and Nambi, P.
Developmental expression of endothelin receptors in cerebellar neurons differentiating in culture (88) 96

M

Madri, J.A., see Ment, L.R. (84) 142
Magnuson, D.S.K., Morassutti, D.J., McBurney, M.W. and Marshall, K.C.
Neurons derived from P19 embryonal carcinoma cells develop responses to excitatory and inhibitory neurotransmitters (90) 141
Magnuson, D.S.K., Morassutti, D.J., Staines, W.A., McBurney, M.W. and Marshall, K.C.
In vivo electrophysiological maturation of neurons derived from a multipotent precursor (embryonal carcinoma) cell line (84) 130
Mahalik, T.J., see Owens, G.P. (86) 35
Maier, D.L., Kalb, R.G. and Stelzner, D.J.
NMDA antagonism during development extends sparing of hindlimb function to older spinally transected rats (87) 135
Mangoura, D., Sogos, V. and Dawson, G.
Phorbol esters and PKC signaling regulate proliferation, vimentin cytoskeleton assembly and glutamine synthetase activity of chick embryo cerebrum astrocytes in culture (87) 1
Mangoura, D., Sogos, V., Pelletiere, C. and Dawson, G.
Differential regulation of phospholipases C and D by phorbol esters and the physiological activators carbachol and glutamate in astrocytes from chicken embryo cerebrum and cerebellum (87) 12
Manzardo, E., see Bertolotto, A. (86) 233
Manzo, L., see Candura, S.M. (86) 134
Maragos, W.F. and Silverstein, F.S.
The mitochondrial inhibitor malonate enhances NMDA toxicity in the neonatal rat striatum (88) 117
Mariani, J., see Caston, J. (86) 311
Mariani, J., see Fuhrman, Y. (87) 172
Marshall, K.C., see Magnuson, D.S.K. (84) 130
Marshall, K.C., see Magnuson, D.S.K. (90) 141
Martin, J.-J., see Wang, J.M. (90) 17
Masters, C.L., see Clarris, H.J. (88) 87
Matejka, G.L., see Eriksson, P.S. (84) 208
Matsuyama, T., see Buwalda, B. (84) 185
Matthews, S.G. and Challis, J.R.G.
Developmental regulation of pre-proenkephalin mRNA in the ovine paraventricular nucleus: effects of stress and glucocorticoids (86) 259
Mazzuca, M., see Mitchell, V. (86) 67
McAbee, M., see DonCarlos, L.L. (84) 253
McBurney, M.W., see Magnuson, D.S.K. (84) 130
McBurney, M.W., see Magnuson, D.S.K. (90) 141
McCabe, C.F., see Kelly, M.M. (85) 31
McCook, E.C., see Seidler, F.J. (85) 48
McCook, E.C., see Slotkin, T.A. (88) 17
McCormick, C.M., Smythe, J.W., Sharma, S. and Meaney, M.J.
Sex-specific effects of prenatal stress on hypothalamic-pituitary-adrenal responses to stress and brain glucocorticoid receptor density in adult rats (84) 55
McDonald, T.J., see Wu, S.S. (84) 278
McEwen, B.S., see Lewis, C. (87) 91
McLaughlin, B.A., see Robinson, M.B. (90) 35
McMillian, M.K., see Pennypacker, K.R. (86) 242
McRae, A., Gilland, E., Bona, E. and Hagberg, H.
Microglia activation after neonatal hypoxic-ischemia (84) 245
Meaney, M.J., see McCormick, C.M. (84) 55
Ment, L.R., Stewart, W.B., Ardito, T.A. and Madri, J.A.
Germinal matrix microvascular maturation correlates inversely with the risk period for neonatal intraventricular hemorrhage (84) 142
Mhaskar, Y. and Dunaway, G.A.
Alteration of PFK subunit protein, synthesis, and mRNA during neonatal brain development (85) 54
Mickley, G.A., Lovelace, J.D., Farrell, S.T. and Chang, K.S.
The intensity of a fetal taste aversion is modulated by the anesthesia used during conditioning (85) 119
Mikati, M.A., see Carmant, L. (89) 67
Miki, A.
Developmental changes in the expression of α-, β- and γ-subspecies of protein kinase C at synapses in the ventral horn of the embryonic and postnatal rat spinal cord (87) 46

Miller, J.D., see Hadley, R.D. (89) 129
Miller, M.W., Waziri, R., Baruah, S. and Gilliam, D.M.
Long-term consequences of prenatal cocaine exposure on biogenic amines in the brains of mice: the role of sex (87) 22
Milosevic, A., Kanazir, S. and Zecevic, N.
Immunocytochemical localization of growth-associated protein GAP-43 in early human development (84) 282
Mishra, R.K., see Nair, V.D. (90) 180
Mistretta, C.M., see Bao, H. (86) 143
Mitchell, V., Mazzuca, M. and Beauvillain, J.C.
The fetal expression of Proenkephalin mRNAs and Met-enkephalin immunoreactivity in the hypothalamoseptal tract and adjacent hypothalamic areas of the guinea pig brain (86) 67
Miyawaki, T., Sohma, O., Mizuguchi, M. and Takashima, S.
Development of endothelial nitric oxide synthase in endothelial cells in the human cerebrum (89) 161
Mizuguchi, M., see Arai, Y. (87) 228
Mizuguchi, M., see Kato, M. (86) 180
Mizuguchi, M., see Miyawaki, T. (89) 161
Moguilevsky, J.A., see Arias, P. (85) 137
Molnar, M., see Casini, G. (84) 233
Mooney, R.D., see Arce, E.A. (90) 168
Moore, J.K., see Luo, L. (86) 24
Moos, T.
Developmental profile of non-heme iron distribution in the rat brain during ontogenesis (87) 203
Moran, T.H., see Bautista, J.R. (90) 45
Morassutti, D.J., see Magnuson, D.S.K. (84) 130
Morassutti, D.J., see Magnuson, D.S.K. (90) 141
Mori, N., see Sugiura, Y. (90) 73
Morii, E., see Hirata, T. (85) 201
Morimoto, T., Kida, K., Nagao, H., Yoshida, K., Fukuda, M. and Takashima, S.
The pathogenic role of the NMDA receptor in hyperthermia-induced seizures in developing rats (84) 204
Morin, L.P., see Botchkina, G.I. (86) 48
Morris, C.M., see Court, J.A. (90) 159
Moss, I.R., see Zhang, C. (87) 188
Mower, G.D., see Kaplan, I.V. (90) 174
Muramatsu, T., see Yoshida, Y. (85) 25
Murphey, L.J. and Olsen, G.D.
Developmental change of *mu* opioid receptors in neonatal guinea pig brain stem (85) 146
Muschel, R.J., see Cañete Soler, R. (88) 37

N

Nagao, H., see Morimoto, T. (84) 204
Nagatsu, I., see Kawano, H. (86) 101
Nair, V.D. and Mishra, R.K.
Ontogenic development of dopamine D_4 receptor in rat brain (90) 180
Nakagaito, Y., Yoshida, T., Satoh, M. and Takeuchi, M.
Effects of leukemia inhibitory factor on the differentiation of astrocyte progenitor cells from embryonic mouse cerebral hemispheres (87) 220
Nakajima, K., see Isobe, Y. (85) 58
Nakao, N., Brundin, P., Funa, K., Lindvall, O. and Odin, P.
Trophic and protective actions of brain-derived neurotrophic factor on striatal DARPP-32-containing neurons in vitro (90) 92
Nambi, P., see Lysko, P.G. (88) 96
Nathanielsz, P.W., see Wu, S.S. (84) 278
Navarrete, R., see Kerai, B. (85) 89
Negishi, K. and Wagner, H.-J.
Differentiation of photoreceptors, glia, and neurons in the retina of the cichlid fish *Aequidens pulcher*; an immunocytochemical study (89) 87
Nehlig, A., see Roger, C. (87) 194
Neilson, M.M.A., see Jiang, Z.-G. (85) 212
Newton, M.R., see Stoker, A.W. (90) 129
Ng, K.T., see O'Dowd, B.S. (88) 220
Niblock, M.M., Brunso-Bechtold, J.K. and Henkel, C.K.
Fiber outgrowth and pathfinding in the developing auditory brainstem (85) 288
Nijland, M.J.M., see Ross, M.G. (87) 120
Nilsson, M., see Eriksson, P.S. (84) 208
Nishino, H., see Isobe, Y. (85) 58
Nobrega, J.N., see Tai, T.-C. (86) 7
Nomura, S., see Hirata, T. (85) 201
Nonomura, T., see Kubo, T. (85) 249
Nordeen, E.J., see Burek, M.J. (85) 220
Nordeen, K.W., see Burek, M.J. (85) 220
Nordlander, R.H., see Somasekhar, T. (88) 53
Norenberg, M.D., see Itzhak, Y. (84) 62
Novakovic, S.D., see Shrager, P. (88) 68

O

Oakley, A.E., see Court, J.A. (90) 159
Odin, P., see Nakao, N. (90) 92
O'Dowd, B.S., Barrington, J., Ng, K.T., Hertz, E. and Hertz, L.
Glycogenolytic response of primary chick and mouse cultures of astrocytes to noradrenaline across development (88) 220
Oestreicher, A.B., see Giannetti, N. (84) 287
O'Hara, B.F., see Clegg, D.A. (84) 46
Ohmoto, T., see Ono, Y. (86) 1
Ohno, M., Aotani, H. and Shimada, M.
Glial responses to hypoxic/ischemic encephalopathy in neonatal rat cerebrum (84) 294
Ohyama, K., see Kawano, H. (86) 101
Okamura, H., see Yokosuka, M. (84) 99
Olavarria, J.F., see Li, C.-P. (89) 227
Olsen, G.D., see Murphey, L.J. (85) 146
Olson, L., see Giacobini, M.M.J. (84) 67
Olster, D.H., see Jones, A.P. (88) 127
Ono, Y., Watanabe, M., Inoue, Y., Ohmoto, T., Akiyama, K., Tsutsui, K. and Seki, S.
Developmental expression of APEX nuclease, a multifunctional DNA repair enzyme, in mouse brains (86) 1
Osame, M., see Yoshida, Y. (85) 25
Oster-Granite, M.L., see Robinson, M.B. (90) 35
Owens, G.P., Mahalik, T.J. and Hahn, W.E.
Expression of the death-associated gene RP-8 in granule cell neurons undergoing postnatal cell death in the cerebellum of *weaver* mice (86) 35
Oyamada, H., see Takatsuji, K. (84) 261
Ozawa, M., see Yoshida, Y. (85) 25

P

Padin, C., see Rozental, R. (85) 161
Page, C.H., see Lee, H.-J. (87) 179
Paiva, M., see Barrow Heaton, M. (89) 270
Paiva, M., see Heaton, M.B. (85) 1
Palkovits, C.G., see Agoston, D.V. (89) 173
Palmer, K., see Wickramasinghe, Y.A.B.D. (89) 307
Panzetta, P., see Allende, M.L. (90) 102
Partoens, P.M., see Wang, J.M. (90) 17
Paschen, W., Schmitt, J., Dux, E. and Djuricic, B.
Temporal analysis of the upregulation of GluR5 mRNA editing with age: regional evaluation (86) 359
Paternostro, M.A., Reyher, C.K.H. and Brunjes, P.C.
Intracellular injections of Lucifer Yellow into lightly fixed mitral cells reveal neuronal dye-coupling in the developing rat olfactory bulb (Dev. Brain Res. 84 (1995) 1–10) (BRESD 51916) (85) 303
Paternostro, M.A., Reyher, C.K.H. and Brunjes, P.C.
Intracellular injections of Lucifer Yellow into lightly fixed mitral cells reveal neuronal dye-coupling in the developing rat olfactory bulb (84) 1
Pelletiere, C., see Mangoura, D. (87) 12
Pellier, V., see Giannetti, N. (84) 287
Pennypacker, K.R., Hudson, P.M., Hong, J.S. and McMillian, M.K.
DNA binding activity of CREB transcription factors during ontogeny of the central nervous system (86) 242
Perez, C.E., see Kimm, E.J. (85) 283
Perry, E.K., see Court, J.A. (90) 159
Perry, R.H., see Court, J.A. (90) 159
Pfenninger, K.H., see Wood, M.R. (88) 194
Phanhthourath, C., see Kelly, M.M. (85) 31
Philpot, B.D., see Klintsova, A.Y. (86) 114

Piat, G., see Fuhrman, Y. (87) 172
Pinelli, C., see D'Aniello, B. (89) 281
Pochet, R., see Bastianelli, E. (87) 224
Pollack, E.D., see Gallo, G. (85) 140
Pothos, E.N., see Jones, A.P. (88) 127
Preston, J.E., Al-Sarraf, H. and Segal, M.B.
Permeability of the developing blood–brain barrier to ^{14}C-mannitol using the rat in situ brain perfusion technique (87) 69
Preston, J.E., see Al-Sarraf, H. (90) 151
Prince, D.A., see Hoffman, S.N. (85) 64
Przyborski, S.A. and Cambray-Deakin, M.A.
Developmental regulation of MAP2 variants during neuronal differentiation in vitro (89) 187
Przyborski, S.A. and Cambray-Deakin, M.A.
Heterogeneity of tau protein and mRNA expression during the development of cerebellar granule cell neurons in vitro (87) 29
Pullen, M., see Lysko, P.G. (88) 96

Q

Quon, R.F., see Wetts, R. (86) 57

R

Rada, P., see Jones, A.P. (88) 127
Ramer-Quinn, D.S., see DonCarlos, L.L. (84) 253
Ramírez-Ordóñez, R. and García-Arrarás, J.E.
Peptidergic, catecholaminergic and morphological properties of avian chromaffin cells are modulated distinctively by growth factors (87) 160
Rand, M.N., see Lankford, K.L. (84) 151
Rangel, S. and Leon, M.
Early odor preference training increases olfactory bulb norepinephrine (85) 187
Rastogi, R.K., see D'Aniello, B. (89) 281
Redondo, J.L., see Charli, J.-L. (89) 155
Refojo, D., see Arias, P. (85) 137
Regondi, M.C., see Frassoni, C. (90) 111
Rehavi, M., see Gordon, I. (85) 225
Reppert, S.M., see Weaver, D.R. (85) 293
Reyher, C.K.H., see Paternostro, M.A. (84) 1
Reyher, C.K.H., see Paternostro, M.A. (85) 303
Rhees, R.W., see Diaz, D.R. (86) 227
Rhoades, R.W., see Arce, E.A. (90) 168
Rhoades, R.W., see Chiaia, N.L. (84) 271
Riccio, A., see Bertolotto, A. (86) 233
Riche, D., Foutz, A.S. and Denavit-Saubié, M.
Developmental changes of NADPH-diaphorase neurons in the forebrain of neonatal and adult cat (89) 139
Rivkees, S.A.
The ontogeny of cardiac and neural A1 adenosine receptor expression in rats (89) 202
Robertson, R.T., see Kimm, E.J. (85) 283
Robertson, R.T., see Ling, J.J. (86) 354
Robinson, M.B., Hopkins, K., Batshaw, M.L., McLaughlin, B.A., Heyes, M.P. and Oster-Granite, M.L.
Evidence of excitotoxicity in the brain of the ornithine carbamoyltransferase deficient *sparse fur* mouse (90) 35
Roca, A.L., see Weaver, D.R. (85) 293
Rocha, M.G. and Avila, J.
Characterization of microtubule-associated protein phosphoisoforms present in isolated growth cones (89) 47
Roder, J.C., see Doering, L.C. (89) 56
Rodnight, R., see Wofchuk, S.T. (85) 181
Rodríguez, M., see Arias, P. (85) 137
Roger, C., Koziel, V., Vert, P. and Nehlig, A.
Regional cerebral metabolic consequences of bilirubin in rat depend upon post-gestational age at the time of hyperbilirubinemia (87) 194
Roger, M., see Garnier, C. (89) 1
Rohbock, K., see Knipper, M. (89) 73
Roig-Cantisano, A., see Itzhak, Y. (84) 62
Rolfe, P., see Wickramasinghe, Y.A.B.D. (89) 307
Rosenne, E., see Gordon, I. (85) 225
Ross, L.R., see Iqbal, J. (85) 151
Ross, M.G., Nijland, M.J.M., Kullama, L.K. and Chan, K.
Cocaine stimulation of ovine fetal swallowing (87) 120
Roth, G.A., Spada, V., Hamill, K. and Bornstein, M.B.
Insulin-like growth factor I increases myelination and inhibits demyelination in cultured organotypic nerve tissue (88) 102
Rozental, R., Gebhard, D., Padin, C., Urban, M., Wu, J.Y., Spray, D.C. and Chiu, F.-C.
Purification of cell populations from human fetal brain using flow cytometric techniques (85) 161
Rubin, S.A., see Bautista, J.R. (90) 45
Ryan, A.F., see Luo, L. (86) 24
Ryu, J.H., Yanai, K., Sakurai, E., Kim, C.-Y. and Watanabe, T.
Ontogenetic development of histamine receptor subtypes in rat brain demonstrated by quantitative autoradiography (87) 101

S

Sakurai, E., see Ryu, J.H. (87) 101
Sakurai, T., Shiga, T., Shirai, T., Tanaka, H. and Grumet, M.
Biochemical characterization and immunolocalization of SC2 protein: SC2 protein is indistinguishable from the cell adhesion molecule axonin-1 (Dev. Brain Res. 83 (1994) 99–108) (BRESD 51905) (85) 301
Sara, V., see Giacobini, M.M.J. (84) 67
Sato, E., see Yoshida, Y. (85) 25
Satoh, M. and Takeuchi, M.
Induction of NCAM expression in mouse olfactory keratin-positive basal cells in vitro (87) 111
Satoh, M., see Nakagaito, Y. (87) 220
Saunders, D.E., Hannigan, J.H., Zajac, C.S. and Wappler, N.L.
Reversal of alcohol's effects on neurite extension and on neuronal GAP43/B50, N-myc, and c-myc protein levels by retinoic acid (86) 16
Schepens, H.T.W.J., see Van Muiswinkel, F.L. (85) 128
Scherer, J., Friedrich, G. and Schnitzer, J.
Differentiation and maturation of rabbit retinal oligodendrocyte precursor cells in vitro (89) 214
Schmitt, J., see Paschen, W. (86) 359
Schnitzer, J., see Scherer, J. (89) 214
Schofield, J.N., Day, I.N.M., Thompson, R.J. and Edwards, Y.H.
PGP9.5, a ubiquitin C-terminal hydrolase; pattern of mRNA and protein expression during neural development in the mouse (85) 229
Schoups, A.A., Elliott, R.C., Friedman, W.J. and Black, I.B.
NGF and BDNF are differentially modulated by visual experience in the developing geniculocortical pathway (86) 326
Schulz, M., see Huxlin, K.R. (84) 77
Schwartz, G.J., see Bautista, J.R. (90) 45
Schwartz, J.P., see Taniwaki, T. (88) 109
Sefton, A.J., see Huxlin, K.R. (84) 77
Segal, M.B., see Al-Sarraf, H. (90) 151
Segal, M.B., see Preston, J.E. (87) 69
Seibenhener, M.L., see Hunter, S.E. (85) 239
Seidler, F.J., Temple, S.W., McCook, E.C. and Slotkin, T.A.
Cocaine inhibits central noradrenergic and dopaminergic activity during the critical developmental period in which catecholamines influence cell development (85) 48
Seidler, F.J., see Slotkin, T.A. (88) 17
Seki, S., see Ono, Y. (86) 1
Sellner, P.A., Chu, W., Glatz, J.F.C. and Berman, N.E.J.
Developmental role of fatty acid-binding proteins in mouse brain (89) 33
Selvaggio, M., see Frassoni, C. (90) 111
Servière, J., see Lavialle, M. (86) 275
Sharma, S., see McCormick, C.M. (84) 55
Shea, T.B.
Inhibition of neuronal surface proteases decreases the requirement for GAP-43 in neurite outgrowth (87) 87
Sheedlo, H.J., Jaynes, D., Bolan, A.L. and Turner, J.E.
Mullerian glia in dystrophic rodent retinas: an immunocytochemical analysis (85) 171
Shiga, T., see Sakurai, T. (85) 301
Shimada, M., see Ohno, M. (84) 294

Shirai, T., see Sakurai, T. (85) 301
Shirao, T., see Kobayashi, S. (90) 122
Shrager, P. and Novakovic, S.D.
Control of myelination, axonal growth, and synapse formation in spinal cord explants by ion channels and electrical activity (88) 68
Siegel, R.E., see Beattie, C.E. (88) 171
Silverstein, F.S., see Maragos, W.F. (88) 117
Sircar, R., He, H.-J. and Li, C.-S.
Chronic postnatal phencyclidine treatment on [^{3}H](+)pentazocine binding in juvenile rat brain (88) 224
Slob, A.K., see Swaab, D.F. (85) 273
Slotkin, T.A., Lorber, B.A., McCook, E.C., Barnes, G.A. and Seidler, F.J.
Neural input and the development of adrenergic intracellular signaling: neonatal denervation evokes neither receptor upregulation nor persistent supersensitivity of adenylate cyclase (88) 17
Slotkin, T.A., see Seidler, F.J. (85) 48
Sluiter, A.A., see Hack, N.J. (87) 55
Small, D.H., see Clarris, H.J. (88) 87
Smith, R.A., see Jiang, Z.-G. (85) 212
Smith, R.A., see Jiang, Z.-G. (90) 190
Smythe, J.W., see McCormick, C.M. (84) 55
Söderström, S., Fredriksson, A., Dencker, L. and Ebendal, T.
The effect of mercury vapour on cholinergic neurons in the fetal brain: studies on the expression of nerve growth factor and its low- and high-affinity receptors (85) 96
Sogos, V., see Mangoura, D. (87) 1
Sogos, V., see Mangoura, D. (87) 12
Sohma, O., see Miyawaki, T. (89) 161
Somasekhar, T. and Nordlander, R.H.
Differential distributions of HNK-1 and tenascin immunoreactivity during innervation of myotomal muscle in *Xenopus* (88) 53
Sonnleitner, U., see Bauer, H. (86) 317
Spada, V., see Roth, G.A. (88) 102
Spencer, S.A., see Wickramasinghe, Y.A.B.D. (89) 307
Spoerri, P.E., Srivastava, N. and Vernadakis, A.
GABA attenuates the neurotoxic effects of ethanol in neuron-enriched cultures from 8-day-old chick embryo cerebral hemispheres (86) 94
Spray, D.C., see Rozental, R. (85) 161
Spreafico, R., see Frassoni, C. (90) 111
Spurden, D., see Court, J.A. (90) 159
Srivastava, N., see Spoerri, P.E. (86) 94
Staines, W.A., see Magnuson, D.S.K. (84) 130
Stancik, D.M., see DonCarlos, L.L. (84) 253
Steiner, M., see Bauer, H. (86) 317
Stelz, T., see Caston, J. (86) 311
Stelzner, D.J., see Maier, D.L. (87) 135
Stewart, W.B., see Ment, L.R. (84) 142
Stirpe, F., see Battelli, M.G. (86) 340
Stoker, A.W., Gehrig, B., Newton, M.R. and Bay, B.-H.
Comparative localisation of CRYPα, a CAM-like tyrosine phosphatase, and Ng-CAM in the developing chick visual system (90) 129
Stoof, J.C., see Van Muiswinkel, F.L. (85) 128
Strittmatter, S.M., see Xie, R. (87) 77
Strömberg, I. and Humpel, C.
Expression of BDNF and *trk*B mRNAs in comparison to dopamine D1 and D2 receptor mRNAs and tyrosine hydroxylase-immunoreactivity in nigrostriatal in oculo co-grafts (84) 215
Sugioka, K., see Ahmed, A.K.M.F. (85) 71
Sugiura, M., see Dow, K.E. (89) 320
Sugiura, Y. and Mori, N.
SCG10 expresses growth-associated manner in developing rat brain, but shows a different pattern to p19/stathmin or GAP-43 (90) 73
Suszkiw, J.B., see Tian, X. (86) 268
Swaab, D.F., Slob, A.K., Houtsmuller, E.J., Brand, T. and Zhou, J.N.
Increased number of vasopressin neurons in the suprachiasmatic nucleus (SCN) of 'bisexual' adult male rats following perinatal treatment with the aromatase blocker ATD (85) 273
Swanson, D.J., see Heaton, M.B. (85) 1
Szél, A., see Van Ginkel, P.R. (89) 146
Szwarcfarb, B., see Arias, P. (85) 137

T

Tai, T.-C., Tompa, J., Nobrega, J.N. and Adamson, S.L.
Changes in regional cytochrome oxidase activity in the fetal, newborn and adult ovine brainstem (86) 7
Takashima, S., see Arai, Y. (87) 228
Takashima, S., see Kato, M. (86) 180
Takashima, S., see Miyawaki, T. (89) 161
Takashima, S., see Morimoto, T. (84) 204
Takatsuji, K., Oyamada, H. and Tohyama, M.
Postnatal development of the substance P-, neuropeptide Y- and serotonin-containing fibers in the rat suprachiasmatic nucleus in relation to development of the retino-hypothalamic projection (84) 261
Takeuchi, M., see Nakagaito, Y. (87) 220
Takeuchi, M., see Satoh, M. (87) 111
Tan, X.X. and Costa, L.G.
Long-lasting microencephaly following exposure to cocaine during the brain growth spurt in the rat (84) 179
Tan, X.X. and Costa, L.G.
Postnatal development of muscarinic receptor-stimulated phosphoinositide metabolism in mouse cerebral cortex: sensitivity to ethanol (86) 348
Tanaka, H., see Sakurai, T. (85) 301
Taniwaki, T. and Schwartz, J.P.
Somatostatin enhances neurofilament expression and neurite outgrowth in cultured rat cerebellar granule cells (88) 109
Tannenberg, A.E.G., see Andersen, D.L. (88) 178
Tatsukawa, K., see Adelson, P.D. (86) 81
Teicher, M.H., Andersen, S.L. and Hostetter Jr., J.C.
Evidence for dopamine receptor pruning between adolescence and adulthood in striatum but not nucleus accumbens (89) 167
Tela, L., see D'Aniello, B. (89) 281
Temple, S.W., see Seidler, F.J. (85) 48
Tharakan, T., Kirchgessner, A.L., Baxi, L.V. and Gershon, M.D.
Appearance of neuropeptides and NADPH-diaphorase during development of the enteropancreatic innervation (84) 26
Thompson, R.J., see Schofield, J.N. (85) 229
Thomson, M.A., see Fuhrman, Y. (87) 172
Tian, X., Bourjeily, N., Bielarczyk, H. and Suszkiw, J.B.
Reduced densities of sodium-dependent [^{3}H] hemicholinium-3 binding sites in hippocampus of developmental rats following perinatal low-level lead exposure (86) 268
Tieman, D.G., see Tieman, S.B. (84) 39
Tieman, S.B., Zec, N. and Tieman, D.G.
Dark-rearing fails to affect the basal dendritic fields of layer 3 pyramidal cells in the kitten's visual cortex (84) 39
Timmers, A.M., see Van Ginkel, P.R. (89) 146
Tohyama, M., see Takatsuji, K. (84) 261
Tompa, J., see Tai, T.-C. (86) 7
Tonè, S., see Araki, M. (89) 103
Tonini, M., see Candura, S.M. (86) 134
Toole, B.P., see Deyst, K.A. (88) 122
Tsuji, M., Allred, E., Jensen, F. and Holtzman, D.
Phosphocreatine and ATP regulation in the hypoxic developing rat brain (85) 192
Tsutsui, J.-i., see Yoshida, Y. (85) 25
Tsutsui, K., see Ono, Y. (86) 1
Turner, J.E., see Sheedlo, H.J. (85) 171
Tyč, F. and Vrbová, G.
Stabilisation of neuromuscular junctions by leupeptin increases motor unit size in partially denervated rat muscles (88) 186

U

Unsicker, K., see Von Coelln, R. (89) 150
Urban, M., see Rozental, R. (85) 161
Uyemura, K., see Kobayashi, S. (90) 122

V

Valeyev, A.Y., Dunlap, V.S. and Barker, J.L.
Pharmacological properties of fetal rat hippocampal $GABA_A$ receptors (85) 280

Van der Zee, E.A., see Buwalda, B. (84) 185
Van Ginkel, P.R., Timmers, A.M., Szél, A. and Hauswirth, W.W.
Topographical regulation of cone and rod opsin genes: parallel, position dependent levels of transcription (89) 146
Van Muiswinkel, F.L., Jongenelen, C.A.M., Schepens, H.T.W.J., Stoof, J.C. and Drukarch, B.
Effects of chronic activation of dopamine D-2 receptors in cultures of rat fetal dopaminergic neurons: indications for alterations in functional activity (85) 128
Vasseur, F., see Caston, J. (86) 311
Vernadakis, A., see Spoerri, P.E. (86) 94
Verney, C., Febvret-Muzerelle, A. and Gaspar, P.
Early postnatal changes of the dopaminergic mesencephalic neurons in the weaver mutant mouse (89) 115
Vert, P., see Roger, C. (87) 194
Vidovic, M. and Hill, C.E.
Alpha adrenoceptor gene expression in the rat iris during development and maturity (89) 309
Villablanca, J.R., see Adelson, P.D. (86) 81
Villablanca, J.R., see Jackson III, G.F. (90) 62
Villablanca, J.R., see Loopuijt, L.D. (85) 259
Virgili, M., see Battelli, M.G. (86) 340
Virginio, C. and Cherubini, E.
Functional expression of voltage dependent sodium channels in *Xenopus* oocytes injected with mRNA from neonatal or adult rat brain (87) 153
Voisin, P., see Grechez-Cassiau, A. (88) 204
Von Coelln, R., Unsicker, K. and Krieglstein, K.
Screening of interleukins for survival-promoting effects on cultured mesencephalic dopaminergic neurons from embryonic rat brain (89) 150
Vrbová, G., see Kerai, B. (85) 89
Vrbová, G., see Tyč, F. (88) 186

W

Wagner, H.-J., see Negishi, K. (89) 87
Walker, D.W., see Barrow Heaton, M. (89) 270
Walker, D.W., see Heaton, M.B. (85) 1
Wang, J.M., Partoens, P.M., Callebaut, D.P., Coen, E.P., Martin, J.-J. and De Potter, W.P.
Phenotype plasticity and immunocytochemical evidence for ChAT and DβH colocalization in fetal pig superior cervical ganglion cells (90) 17
Wappler, N.L., see Saunders, D.E. (86) 16
Warsh, J.J., see Andreopoulos, S. (88) 30
Wasserstrom, S.P., see Brown, K.E. (86) 335
Watamura, S., see Jordan, C.L. (84) 225
Watanabe, M., see Ono, Y. (86) 1
Watanabe, T., see Ryu, J.H. (87) 101
Waxman, S.G., see Lankford, K.L. (84) 151
Waziri, R., see Miller, M.W. (87) 22
Weaver, D.R., Roca, A.L. and Reppert, S.M.
c-*fos* and *jun*-B mRNAs are transiently expressed in fetal rodent suprachiasmatic nucleus following dopaminergic stimulation (85) 293
Weickert, C.S. and Blum, M.
Striatal TGF-α: postnatal developmental expression and evidence for a role in the proliferation of subependymal cells (86) 203
Weizman, R., see Gordon, I. (85) 225
Werner, S.J., see Carmant, L. (89) 67
Wetts, R. and Quon, R.F.
Autonomous proliferation of neural precursors in the tadpole retina revealed after partial removal of the embryonic eyebud (86) 57
Wickramasinghe, Y.A.B.D., Rolfe, P., Palmer, K. and Spencer, S.A.
Investigation of neonatal brain cytochrome redox by NIRS (89) 307
Wilson, M.C., see Heyser, C.J. (89) 264
Withington, D.J., see Binns, K.E. (85) 14
Wofchuk, S.T. and Rodnight, R.
Age-dependent changes in the regulation by external calcium ions of the phosphorylation of glial fibrillary acidic protein in slices of rat hippocampus (85) 181
Wood, M.R., De Jongh, K.S., Catterall, W.A. and Pfenninger, K.H.
Na^+ channel changes in the growth cone and developing nerve terminal (88) 194
Woolsey, T.A., see Brown, K.E. (86) 335
Wooten, M.W., see Hunter, S.E. (85) 239
Wu, C.-C. and Gonzalez, M.F.
Neonatal capsaicin treatment (NCT) alters the metabolic activity of the rat somatosensory cortex in response to mechanical deflection of the mystacial vibrissae (87) 62
Wu, C.-f. and Howard, B.D.
K252a-potentiation of EGF-induced neurite outgrowth from PC12 cells is not mimicked or blocked by other protein kinase activators or inhibitors (86) 217
Wu, J.Y., see Rozental, R. (85) 161
Wu, S.S., Nathanielsz, P.W. and McDonald, T.J.
Immunocytochemical distribution of androgen receptors in the hypothalamus and pituitary of the fetal baboon in late gestation (84) 278

X

Xie, R., Li, L., Goshima, Y. and Strittmatter, S.M.
An activated mutant of the α subunit of G_o increases neurite outgrowth via protein kinase C (87) 77

Y

Yamadori, T., see Ahmed, A.K.M.F. (85) 71
Yamamoto, M., see Isahara, K. (84) 164
Yan, W., Young, J.L. and Haring, J.H.
Evidence for the elaboration of multiple axons by developing dentate granule cells (90) 194
Yanai, K., see Ryu, J.H. (87) 101
Yip, J.W., Yip, Y.P. and Capriotti, C.
The expression, origin and function of tenascin during peripheral nerve formation in the chick (86) 297
Yip, Y.P., see Yip, J.W. (86) 297
Yokosuka, M., Okamura, H. and Hayashi, S.
Transient expression of estrogen receptor-immunoreactivity (ER-IR) in the layer V of the developing rat cerebral cortex (84) 99
Yong, Y. and Dreyer, J.-L.
Developmental changes in the localization of the transplasma membrane NADH-dehydrogenases in the rat brain (89) 253
Yong, Y. and Dreyer, J.-L.
Distribution of six transplasma membrane NADH-dehydrogenases in rat brain tissue (89) 235
Yoshida, K., see Morimoto, T. (84) 204
Yoshida, T., see Nakagaito, Y. (87) 220
Yoshida, Y., Goto, M., Tsutsui, J.-i., Ozawa, M., Sato, E., Osame, M. and Muramatsu, T.
Midkine is present in the early stage of cerebral infarct (85) 25
Young, D., see Giacobini, M.M.J. (84) 67
Young, J.L., see Yan, W. (90) 194
Yu, C.C., see Kimm, E.J. (85) 283
Yu, J., see Kimm, E.J. (85) 283
Yu, J., see Ling, J.J. (86) 354

Z

Zajac, C.S., see Saunders, D.E. (86) 16
Zantua, J.B., see Brown, K.E. (86) 335
Zec, N., see Tieman, S.B. (84) 39
Zecevic, N., see Milosevic, A. (84) 282
Zenner, H.-P., see Knipper, M. (89) 73
Zetterström, R.H., see Giacobini, M.M.J. (84) 67
Zhang, C. and Moss, I.R.
Age-related μ-, δ-and κ-opioid ligands in respiratory-related brain regions of piglets: effect of prenatal cocaine (87) 188
Zhou, F.C., Azmitia, E.C. and Bledsoe, S.
Rapid serotonergic fiber sprouting in response to ibotenic acid lesion in the striatum and hippocampus (84) 89
Zhou, J.N., see Swaab, D.F. (85) 273
Zimmermann, H., see Braun, N. (88) 79
Zimmermann, U., see Knipper, M. (89) 73

DEVELOPMENTAL BRAIN RESEARCH
AUTHOR INDEX
1995
VOLUMES 84–90

A

Abnormal brain development
Neonatal brain injury; Fetal brain injury; Neuronal cell death; Thalamus; Neocortex (Jackson III, G.F. (90) 62)

Acetylated microtubule
Neurite outgrowth; Growth cone (Hadley, R.D. (89) 129)

Acetylcholinesterase
Estrogen receptor; Cerebral cortex; Development; Immunohistochemistry; Auditory cortex (Yokosuka, M. (84) 99)

Central nervous system; Cortical development; Muscarinic acetylcholine receptor (Buwalda, B. (84) 185)

Basal forebrain; Cholinergic; Deafferentation; Thalamocortical; Visual cortex (Kimm, E.J. (85) 283)

Axonal growth; Competition; Elvax; Phospholine iodide; Thalamocortical (Ling, J.J. (86) 354)

Adenosine
Receptor; Fetus; Heart; Brain (Rivkees, S.A. (89) 202)

Adenosine receptor
Caffeine; Seizure; Methylxanthine; Chemoconvulsant; Ontogeny (Guillet, R. (89) 124)

Adenylate cyclase, developmental effects of 6-hydroxydopamine
Adrenergic receptor, developmental effects of 6-hydroxydopamine; Cyclic AMP, developmental effects of 6-hydroxydopamine; Heart, development of adrenergic signaling; 6-Hydroxydopamine, effects on adrenergic development; Liver, development of adrenergic signaling (Slotkin, T.A. (88) 17)

ADHD
Mouse; Righting reflex; Bar holding; SNAP-25; Synaptic protein; Neurotransmitter release; Synaptogenesis (Heyser, C.J. (89) 264)

Adhesion
GAP-43; Neurite outgrowth; Neuronal maturation; Growth cone; Neuronal surface protease; Thrombin; Hirudin (Shea, T.B. (87) 87)

Adhesion molecule
Vascular endothelial cell; Neurite outgrowth; Vitronectin; Heparan sulfate proteoglycan (Isahara, K. (84) 164)

HNK-1; Tenascin; *Xenopus*; Frog embryo; Developing myotome; Developing neuromuscular junction (Somasekhar, T. (88) 53)

Phosphotyrosine; Retinal axon; Retina; Optic tectum; Signalling (Stoker, A.W. (90) 129)

Adolescence
Animal development; Dopamine; Pruning; Receptor; Puberty (Teicher, M.H. (89) 167)

Adrenergic
Co-localization; Dopamine-β-hydroxylase; Choline acetyl transferase; Superior cervical ganglion; Fetal; Pig; Cholinergic (Wang, J.M. (90) 17)

Adrenergic receptor, developmental effects of 6-hydroxydopamine
Adenylate cyclase, developmental effects of 6-hydroxydopamine; Cyclic AMP, developmental effects of 6-hydroxydopamine; Heart, development of adrenergic signaling; 6-Hydroxydopamine, effects on adrenergic development; Liver, development of adrenergic signaling (Slotkin, T.A. (88) 17)

α Adrenoceptor
Sympathetic neurone; Iris; Reverse transcription-polymerase chain reaction; Development; Aging (Vidovic, M. (89) 309)

Adrenocorticotropin
Stress; Corticosterone; Glucocorticoid receptors; Corticosterone binding globulin; Sex differences; Prenatal stress (McCormick, C.M. (84) 55)

Adult
Cytochrome oxidase; Metabolism; Brainstem; Development; Perinatal; Birth; Sheep (Tai, T.-C. (86) 7)

Adult neuronal culture
Neuropeptide; DRG; Nerve growth factor; Aging (Jiang, Z.-G. (90) 190)

AF-DX 116
Muscarinic receptor; Phosphoinositide; Cerebral cortex; Brainstem; Pirenzepine; 4-DAMP; *p*-F-HHSiD (Candura, S.M. (86) 134)

Afferent influence
Immediate-early gene; Sensory deprivation; Olfactory system (Klintsova, A.Y. (86) 114)

Afterhyperpolarization
Firing behavior; Development; Cortex; Ca-dependent K^+ current; BAPTA (Lorenzon, N.M. (84) 192)

Aging
DRG neuron; Neuritogenesis; NGF; Neuron culture (Jiang, Z.-G. (85) 212)

Dopamine transporter; GBR-12935; Dopamine; Dopamine release; Amphetamine (Gordon, I. (85) 225)

α Adrenoceptor; Sympathetic neurone; Iris; Reverse transcription-polymerase chain reaction; Development (Vidovic, M. (89) 309)

Neuropeptide; DRG; Nerve growth factor; Adult neuronal culture (Jiang, Z.-G. (90) 190)

Albinism
Corpus callosum; Neural plasticity; Binocular vision; Eye alignment; Subplate cell (Grant, S. (88) 132)

Alcohol
Fetal alcohol syndrome; Alcohol-related birth defect; Neuron; Cell differentiation; N-myc; c-myc; Growth-associated protein 43; B50; Cell, cultured (Saunders, D.E. (86) 16)

Alcohol-related birth defect
Fetal alcohol syndrome; Alcohol; Neuron; Cell differentiation; N-myc; c-myc; Growth-associated protein 43; B50; Cell, cultured (Saunders, D.E. (86) 16)

Alphaxalone
Embryonic cell; Patch-clamp; $GABA_A$-receptor; (−)Pentobarbital; Cl^--current (Valeyev, A.Y. (85) 280)

Amalgam
Inorganic mercury; NGF; Trk tyrosine kinase receptor; Choline acetyltransferase; p75 low-affinity NGF receptor; Brain lesion (Söderström, S. (85) 96)

Amino acid
Catecholamine; Cocaine; Dopamine; Serotonin; Sex difference (Miller, M.W. (87) 22)

Amino acid neurotransmitter
Puberty; Taurine; LH; LHRH; HPLC; γ-Aminobutyric acid (Arias, P. (85) 137)

γ-Aminobutyric acid
Ethanol; Neuronal culture; Cholinergic neuron; GABAergic neuron (Spoerri, P.E. (86) 94)

γ-Aminobutyric acid
Puberty; Taurine; LH; LHRH; HPLC; Amino acid neurotransmitter (Arias, P. (85) 137)

Receptor subunit; Neuron culture; Microtubule-associated protein 2; Synapse; Immunohistochemistry (Gao, B. (88) 1)

Cichlid retina; Histogenesis; Development; PCNA; GFAP; Rhodopsin; Visinin; GnRH; TH; 5-HT; SP; NPY; Immunohistochemistry (Negishi, K. (89) 87)

4-Aminopyridine
Epileptogenesis; Development; Neocortex; Intrinsic bursting; Patch clamp; Current source-density analysis (Hoffman, S.N. (85) 64)

AMPA / Kainate
Somatostatin; Glutamate; Hypothalamic neuron; Development in vitro (Gardette, R. (86) 123)

AMPA receptor
Cyclothiazide; Cerebellar granule cells; Western Blot analysis (Hack, N.J. (87) 55)

Amphetamine
Dopamine transporter; GBR-12935; Aging; Dopamine; Dopamine release (Gordon, I. (85) 225)

cAMP responsive element
Brain; Gene regulation; AP-1 element; Fos-related antigen (Pennypacker, K.R. (86) 242)

Amyloid
Neuroepithelium; Olfactory bulb; Synaptogenesis; Neurite (Clarris, H.J. (88) 87)

Amyloid precursor protein
Apolipoprotein E; Senile plaque; Astrocyte; Down syndrome; Senile dementia of Alzheimer type (Arai, Y. (87) 228)

Androgen
Synapse elimination; Neuromuscular; Levator ani; Sexual differentiation; Synaptic development (Jordan, C.L. (84) 225)

Androgen receptor
Baboon; Hypothalamus; Fetus; Pituitary; Pregnancy (Wu, S.S. (84) 278)

Anesthesia
N-Methyl-D-aspartate; Ketamine; Conditioned taste aversion; Fetus; Sodium pentobarbital;

Learning; Development; Neural plasticity (Mickley, G.A. (85) 119)

Animal development
Dopamine; Pruning; Receptor; Adolescence; Puberty (Teicher, M.H. (89) 167)

Animal model
Dopamine; Substantia nigra; Parkinson's disease; Postnatal; Development; Cell death (Verney, C. (89) 115)

Urea cycle; Quinolinic acid; Excitotoxicity; *N*-Methyl-D-aspartate; Ornithine carbamoyltransferase deficiency; *Sparse fur* mouse (Robinson, M.B. (90) 35)

Antibody binding inhibition
GD_3 accessibility; Membrane rearrangement; Neural differentiation (Allende, M.L. (90) 102)

AP-1 element
cAMP responsive element; Brain; Gene regulation; Fos-related antigen (Pennypacker, K.R. (86) 242)

AP endonuclease
APEX mRNA; Repair enzyme; Redox factor; Hybridization, in situ; Brain; Development; Mouse (Ono, Y. (86) 1)

APEX mRNA
AP endonuclease; Repair enzyme; Redox factor; Hybridization, in situ; Brain; Development; Mouse (Ono, Y. (86) 1)

Apolipoprotein E
Amyloid precursor protein; Senile plaque; Astrocyte; Down syndrome; Senile dementia of Alzheimer type (Arai, Y. (87) 228)

Apoptosis
Motoneuron; Chick embryo; Cellular calcium; Spinal cord; Development (Ciutat, D. (86) 167)

Arg-vasopressin
Circadian rhythm; Suprachiasmatic nucleus; Development; Rat pup (Isobe, Y. (85) 58)

Aromatase
Dendritic spine; Estrogen; Gonadectomy; VMN; Hippocampus (Lewis, C. (87) 91)

Aromatase blocker
Vasopressin; Suprachiasmatic nucleus; Sexual behavior; Sexual partner preference; Hypothalamus; Male rat (Swaab, D.F. (85) 273)

Aspartate
Glutamate; Blood–brain barrier; *N*-Methyl-D-aspartate; Mannitol; Blood–cerebrospinal fluid barrier (Al-Sarraf, H. (90) 151)

Astrocyte
Cerebral cortex; Peripheral-type benzodiazepine receptor; Development (Itzhak, Y. (84) 62)

Hypoxic/ischemic; Encephalopathy; Immature; Microglia; Immunocytochemistry (Ohno, M. (84) 294)

Midkine; Cerebral infarct; Neurotrophic factor; Repair of brain tissue (Yoshida, Y. (85) 25)

Dopaminergic neuron; Brain development; Cerebellum; Growth factor (Choi-Lundberg, D.L. (85) 80)

Calcium ion; Calcium channel; Glial fibrillary acidic protein; Protein phosphorylation; Hippocampal slice (rat); Calcium/calmodulin-dependent protein kinase (Wofchuk, S.T. (85) 181)

Radial glia; Vasoactive intestinal peptide; Suprachiasmatic nucleus; Circadian rhythm; Vimentin; Glial fibrillary acidic protein; Development (Botchkina, G.I. (86) 48)

Suprachiasmatic nucleus; GFAP; Ontogenesis; Fos immunoreactivity; Retinohypothalamic tract (Lavialle, M. (86) 275)

PKC; Glia; Glutamine synthetase; Chick embryo; Cytoskeleton; Vimentin; Cell lineage; PKA; PLD; HB; Calyculin A (Mangoura, D. (87) 1)

PKC; Glia; PLC; PLD; Chick embryo; TPA; Glutamate; Muscarinic; Calcium; Tyrosine kinase (PTK) (Mangoura, D. (87) 12)

Apolipoprotein E; Amyloid precursor protein; Senile plaque; Down syndrome; Senile dementia of Alzheimer type (Arai, Y. (87) 228)

Astrocyte culture
β-Receptor; Cyclic AMP; Chick; Glycogenolysis; Mouse; Noradrenaline (O'Dowd, B.S. (88) 220)

Astrocyte progenitor cell
Leukemia inhibitory factor; Differentiation (Nakagaito, Y. (87) 220)

Astroglia
Nigrostriatal system; Cytokine; Growth factor; Parkinsonism (Von Coelln, R. (89) 150)

ATP
Nuclear magnetic resonance spectroscopy; Creatine kinase; Brain; Development; Hypoxia (Tsuji, M. (85) 192)

Auditory cortex
Estrogen receptor; Cerebral cortex; Development; Immunohistochemistry; Acetylcholinesterase (Yokosuka, M. (84) 99)

Auditory deprivation
Topographic map; Auditory system; Directional hearing; Development; Inferior colliculus; Dark-rearing (Binns, K.E. (85) 14)

Auditory development
Trapezoid body; Growth cone; Superior olivary complex; Cochlear nucleus; DiI (Niblock, M.M. (85) 288)

Auditory system
Topographic map; Directional hearing; Development; Inferior colliculus; Dark-rearing; Auditory deprivation (Binns, K.E. (85) 14)

Autoradiography
Vibrissa; *N*-Methyl-D-aspartate; QUIS receptor; Non-NMDA receptor; Metabotropic receptor; Development; Cerebral cortex (Blue, M.E. (84) 11)

Bilirubin; Development; Cerebral glucose utilization; [^{14}C]2-Deoxyglucose (Roger, C. (87) 194)

Axon
Hippocampal formation; Fascia dentata; Granule cell; Neuron development; Neurobiotin; Intracellular filling (Yan, W. (90) 194)

Axonal growth
Acetylcholinesterase; Competition; Elvax; Phospholine iodide; Thalamocortical (Ling, J.J. (86) 354)

GTP-binding protein; G_o; Neuronal growth cone; PC12 cell; Protein kinase C (Xie, R. (87) 77)

Axonal growth cone
Microtubule-associated protein; Proline-dependent protein kinase; Microtubule stability; Neuronal differentiation; Cerebellar granule neuron (Rocha, M.G. (89) 47)

Axonal regeneration
Growth-associated protein; Sensitive period; Growth and development; Rat; Gustatory pathway; Chorda-tympani nerve; Facial nerve; Geniculate ganglion (Lasiter, P.S. (89) 289)

Axon guidance
Growth cone; Lamella; Cyclic remodelling; Target tissue; Motility (Gallo, G. (85) 140)

Axon outgrowth
Tenascin; Peripheral nervous system development; Somite; Neural crest (Yip, J.W. (86) 297)

B

B50
Fetal alcohol syndrome; Alcohol-related birth defect; Alcohol; Neuron; Cell differentiation; N-myc; c-myc; Growth-associated protein 43; Cell, cultured (Saunders, D.E. (86) 16)

***jun*-B**
Suprachiasmatic nucleus; Cocaine; SKF 38393; c-*fos*; Fetus; Circadian rhythm (Weaver, D.R. (85) 293)

trkB
Brain-derived neurotrophic factor; Dopamine receptor; Substantia nigra; Striatum; Transplant; Intraocular graft; Dopamine (Strömberg, I. (84) 215)

Baboon
Hypothalamus; Androgen receptor; Fetus; Pituitary; Pregnancy (Wu, S.S. (84) 278)

BAPTA
Firing behavior; Afterhyperpolarization; Development; Cortex; Ca-dependent K^+ current (Lorenzon, N.M. (84) 192)

Bar holding
Mouse; Righting reflex; SNAP-25; ADHD; Synaptic protein; Neurotransmitter release; Synaptogenesis (Heyser, C.J. (89) 264)

Barrel
Rat; Infraorbital nerve; Somatosensory cortex; Histochemistry (Chiaia, N.L. (84) 271)

Barreloid; Pattern formation; Thalamocortical relay cell (Brown, K.E. (86) 335)

Barrel cortex
Neurotoxicity; Metabolism; Vibrissae stimulation (Wu, C.-C. (87) 62)

Barreloid
Pattern formation; Barrel; Thalamocortical relay cell (Brown, K.E. (86) 335)

Basal forebrain
Acetylcholinesterase; Cholinergic; Deafferentation; Thalamocortical; Visual cortex (Kimm, E.J. (85) 283)

Basal ganglia
Opioid peptide; Hippocampus; Olfactory bulb (Casini, G. (84) 233)

Basic fibroblast growth factor
Hyaluronan; Transforming growth factor-β; Extracellular matrix; Embryonic glial cell (Deyst, K.A. (88) 122)

Behavior
Cocaine; Fetal; Swallowing; Sheep; Ovine; Ingestion (Ross, M.G. (87) 120)

Bilateral projection
Retinal ganglion cell; Double-labeling; Fluorescent tracer; Superior colliculus; Developing rat (Ahmed, A.K.M.F. (85) 71)

Bilirubin
Development; Cerebral glucose utilization; [^{14}C]2-Deoxyglucose; Autoradiography (Roger, C. (87) 194)

σ Binding site
Development; *N*-Methyl-D-aspartate antagonist; Psychosis; Epilepsy; Schizophrenia (Sircar, R. (88) 224)

Binocular vision
Albinism; Corpus callosum; Neural plasticity; Eye alignment; Subplate cell (Grant, S. (88) 132)

Biocytin tracing
Static culture; γ-Irradiation; Electron microscopy; Synaptogenesis (Gaiarsa, J.-L. (86) 250)

Biological clock
SCN; Light; Circadian rhythm; c-*fos*; SIDS (Clegg, D.A. (84) 46)

Biotinylated dextran amine
Corticothalamic; Postnatal development; Thalamic reticular nucleus; Ventrobasal nucleus; Posterior nucleus (Frassoni, C. (90) 111)

Birdsong
Sexual differentiation; Estrogen; Zebra finch; Higher vocal center; Neuronal survival (Burek, M.J. (85) 220)

Birth
Cytochrome oxidase; Metabolism; Brainstem; Development; Perinatal; Adult; Sheep (Tai, T.-C. (86) 7)

Blood–brain barrier
Glucose transporter; Glut 1; Development (Bauer, H. (86) 317)

Permeability; Blood flow; Rat; Glycine; Mannitol; Neonate; Development (Preston, J.E. (87) 69)

Aspartate; Glutamate; *N*-Methyl-D-aspartate; Mannitol; Blood–cerebrospinal fluid barrier (Al-Sarraf, H. (90) 151)

Blood–cerebrospinal fluid barrier
Aspartate; Glutamate; Blood–brain barrier; *N*-Methyl-D-aspartate; Mannitol (Al-Sarraf, H. (90) 151)

Blood flow
Blood–brain barrier; Permeability; Rat; Glycine; Mannitol; Neonate; Development (Preston, J.E. (87) 69)

Blood glucose levels
Diabetes (type II); C57BL/KsJ (*db*/*db*) mice; Regional brain norepinephrine; Estradiol; Progesterone; Diabetes-obesity syndrome (Garris, D.R. (89) 314)

Borna disease virus
Brain; Cerebellum; Development; Rat; Neonatal infection; Granule cell; Neuron; Virus (Bautista, J.R. (90) 45)

Brain
6-Phosphofructo-1-kinase; Development; Energy metabolism; Metabolic regulation; Isozyme; Protein synthesis; mRNA; Western blotting; Northern analysis (Mhaskar, Y. (85) 54)

Nuclear magnetic resonance spectroscopy; Creatine kinase; ATP; Development; Hypoxia (Tsuji, M. (85) 192)

APEX mRNA; AP endonuclease; Repair enzyme; Redox factor; Hybridization, in situ; Development; Mouse (Ono, Y. (86) 1)

cAMP responsive element; Gene regulation; AP-1 element; Fos-related antigen (Pennypacker, K.R. (86) 242)

Development; GluR5; Kainate receptor; RNA editing (Paschen, W. (86) 359)

Adenosine; Receptor; Fetus; Heart (Rivkees, S.A. (89) 202)

Gonadotropin-releasing hormone; Immunohistochemistry; Ontogenesis; Frog (D'Aniello, B. (89) 281)

Cerebellum; Development; Rat; Borna disease virus; Neonatal infection; Granule cell; Neuron; Virus (Bautista, J.R. (90) 45)

Dopamine D_4 receptor; mRNA; Development; Polymerase chain-reaction; Postnatal (Nair, V.D. (90) 180)

Brain damage
Microglia; Microtubule associated protein II; Immunomolecule; Neonatal; Ischemia; Hypoxia (McRae, A. (84) 245)

Brain-derived neurotrophic factor
Dopamine receptor; Substantia nigra; Striatum; Transplant; trkB; Intraocular graft; Dopamine (Strömberg, I. (84) 215)

Nerve growth factor; Neurotrophin-3; *trk*; Rat; Visual; Light-deprivation (Schoups, A.A. (86) 326)

Brain development
Dopaminergic neuron; Astrocyte; Cerebellum; Growth factor (Choi-Lundberg, D.L. (85) 80)

Fetal brain injury; Neuronal cell death; Thalamus; Neocortex; Thalamic ventrobasal complex (Loopuijt, L.D. (85) 259)

Glial cell; Metalloproteinase; Neuron; Plasminogen activator (Del Bigio, M.R. (86) 345)

Nitric oxide synthase; Endothelium; Immunohistochemistry; Human cerebrum (Miyawaki, T. (89) 161)

Plasma membrane redox; Cellular activation; Cytotoxicity; Neurogenesis (Yong, Y. (89) 253)

Brain lesion
Inorganic mercury; Amalgam; NGF; Trk tyrosine kinase receptor; Choline acetyltransferase; p75 low-affinity NGF receptor (Söderström, S. (85) 96)

Brain ontogenesis
Growth-associated protein; GAP-43/B-50/F-1/pp46; SCG10; p19/stathmin; Hybridization, in situ; Rat brain; Developmental gene expression (Sugiura, Y. (90) 73)

Brainstem
Cytochrome oxidase; Metabolism; Development; Perinatal; Adult; Birth; Sheep (Tai, T.-C. (86) 7)

Muscarinic receptor; Phosphoinositide; Cerebral cortex; Pirenzepine; AF-DX 116; 4-DAMP; *p*-F-HHSiD (Candura, S.M. (86) 134)

Cocaine; β-Endorphin; Methionine-enkephalin; Dynorphin A; Dynorphin B; Swine; Newborn (Zhang, C. (87) 188)

Plasticity; Deafferentation; Cuneate nucleus; Rhesus; *Macaca* (Jain, N. (90) 24)

Brainstem slice
Nucleus of solitary tract; Gustatory; Development; Intrinsic electrophysiological property; Dendrite; Whole cell recording (Bao, H. (86) 143)

Brain vascularization
MMP-9 mRNA; Gelatinase activity; Neurogenesis; Extracellular matrix; Hybridization, in situ (Cañete Soler, R. (88) 37)

Bromodeoxyuridine
Monodelphis; Marsupial; Hypothalamus; Development; Immunohistochemistry (Iqbal, J. (85) 151)

β2 subunit
Growth cone; Synaptosome; Saxitoxin; Sodium channel; Development; Western blot; Immunochemistry (Wood, M.R. (88) 194)

α-Bungarotoxin binding
Nicotine binding; Muscarinic binding; Cerebellum; Human; Foetus; p75 nerve growth factor receptor; Choline acetyltransferase (Court, J.A. (90) 159)

C

Ca-dependent K^+ current
Firing behavior; Afterhyperpolarization; Development; Cortex; BAPTA (Lorenzon, N.M. (84) 192)

Caffeine
Seizure; Adenosine receptor; Methylxanthine; Chemoconvulsant; Ontogeny (Guillet, R. (89) 124)

Calcium
Neurite initiation; Thapsigargin; Dorsal root ganglion; Culture; Rat (Lankford, K.L. (84) 151)

PKC; Astrocyte; Glia; PLC; PLD; Chick embryo; TPA; Glutamate; Muscarinic; Tyrosine kinase (PTK) (Mangoura, D. (87) 12)

Olfactory keratin-positive basal cell; Neural cell adhesion molecule; Transforming growth factor-β (Satoh, M. (87) 111)

Odor stimulation; Calcium-binding protein; Immunohistochemistry (Bastianelli, E. (87) 224)

Calcium-binding protein
Calcium; Odor stimulation; Immunohistochemistry (Bastianelli, E. (87) 224)

Calcium/calmodulin-dependent protein kinase
Calcium ion; Calcium channel; Astrocyte; Glial fibrillary acidic protein; Protein phosphorylation; Hippocampal slice (rat) (Wofchuk, S.T. (85) 181)

Calcium-calmodulin type II kinase
Glutamate; Proteoglycan; Signal transduction; Nitric oxide; Protein kinase C (Dow, K.E. (89) 320)

Calcium channel
Calcium ion; Astrocyte; Glial fibrillary acidic protein; Protein phosphorylation; Hippocampal slice (rat); Calcium/calmodulin-dependent protein kinase (Wofchuk, S.T. (85) 181)

Calcium ion
Calcium channel; Astrocyte; Glial fibrillary acidic protein; Protein phosphorylation; Hippocampal slice (rat); Calcium/calmodulin-dependent protein kinase (Wofchuk, S.T. (85) 181)

Calcium potential
Organotypic culture; Development; Embryonic motoneuron; Hypoglossal motoneuron; Facial motoneuron; Ocular motoneuron; Ionic conductance (Eustache, I. (86) 187)

Calyculin A
PKC; Glia; Astrocyte; Glutamine synthetase; Chick embryo; Cytoskeleton; Vimentin; Cell lineage; PKA; PLD; HB (Mangoura, D. (87) 1)

Carbonic anhydrase-C
Royal College of Surgeons dystrophic rat; Retinal degeneration mouse; Mullerian glia; Cellular retinaldehyde-binding protein; Immunocytochemistry (Sheedlo, H.J. (85) 171)

Cat
Dendrite; Dendritic morphology; Deprivation; Development; Golgi method (Tieman, S.B. (84) 39)

NADPH-diaphorase; Development; Histochemistry; Central nervous system (Riche, D. (89) 139)

Catecholamine
Amino acid; Cocaine; Dopamine; Serotonin; Sex difference (Miller, M.W. (87) 22)

Chromaffin cell; Neurotrophic factor; Neuropeptide Y; Enkephalin; Somatostatin; Plasticity (Ramírez-Ordóñez, R. (87) 160)

C57BL/KsJ (*db*/*db*) mice
Diabetes (type II); Regional brain norepinephrine; Estradiol; Progesterone; Blood glucose levels; Diabetes-obesity syndrome (Garris, D.R. (89) 314)

[^{14}C]2-Deoxyglucose
Bilirubin; Development; Cerebral glucose utilization; Autoradiography (Roger, C. (87) 194)

Cell culture
Neurotrophin; Striatal neuron; DARPP-32; Excitotoxicity; Huntington's disease; Platelet-derived growth factor (Nakao, N. (90) 92)

Cell, cultured
Fetal alcohol syndrome; Alcohol-related birth defect; Alcohol; Neuron; Cell differentiation; N-myc; c-myc; Growth-associated protein 43; B50 (Saunders, D.E. (86) 16)

Cell death
Retina; Potassium; Differentiation; HPC-1; Thy-1; Rhodopsin (Araki, M. (89) 103)

Animal model; Dopamine; Substantia nigra; Parkinson's disease; Postnatal; Development (Verney, C. (89) 115)

Cell differentiation
Neural development; Radial glia; EAP-300 polypeptide; IFAPa-400; Leucine-zipper (Kelly, M.M. (85) 31)

Fetal alcohol syndrome; Alcohol-related birth defect; Alcohol; Neuron; N-myc; c-myc; Growth-associated protein 43; B50; Cell, cultured (Saunders, D.E. (86) 16)

Cell lineage
Retina; Stem cell; Growth control; *Xenopus laevis* (Wetts, R. (86) 57)

PKC; Glia; Astrocyte; Glutamine synthetase; Chick embryo; Cytoskeleton; Vimentin; PKA; PLD; HB; Calyculin A (Mangoura, D. (87) 1)

Cell migration
S100; Glia; Ensheathing cell; LHRH neuron; Olfactory bulb; Development; Immunofluorescence (Cummings, D.M. (88) 148)

Granule cell; Reaggregation culture, K252a; Kinase inhibitor; Microfilament (Kobayashi, S. (90) 122)

Cellular activation
Plasma membrane redox; Cytotoxicity; Neurotransmitter (Yong, Y. (89) 235)

Plasma membrane redox; Cytotoxicity; Neurogenesis; Brain development (Yong, Y. (89) 253)

Cellular calcium
Apoptosis; Motoneuron; Chick embryo; Spinal cord; Development (Ciutat, D. (86) 167)

Cellular retinaldehyde-binding protein
Royal College of Surgeons dystrophic rat; Retinal degeneration mouse; Mullerian glia; Carbonic anhydrase-C; Immunocytochemistry (Sheedlo, H.J. (85) 171)

Central auditory system
Growth factor; Ontogeny; In situ hybridization (Luo, L. (86) 24)

Central nervous system
Intermediate filament; Differentiation; Radial glial cell; mRNA localization (Dahlstrand, J. (84) 109)

Cortical development; Muscarinic acetylcholine receptor; Acetylcholinesterase (Buwalda, B. (84) 185)

Development; Iron; Endothelium; Choroid plexus; Macrophage; Microglia; Histochemistry; Rat (Moos, T. (87) 203)

NADPH-diaphorase; Development; Histochemistry; Cat (Riche, D. (89) 139)

Central nervous system development
Cerebellar granule cell; Neurite extension; Neurofilament; Neurofilament mRNA; Neurotrophic factor; Somatostatin (Taniwaki, T. (88) 109)

Cerebellar development
$GABA_A$ receptor; Weaver mice; In situ hybridization; Purkinje neuron; Cerebellum; Mutant mouse (Beattie, C.E. (88) 171)

Cerebellar granule cell
Central nervous system development; Neurite extension; Neurofilament; Neurofilament mRNA; Neurotrophic factor; Somatostatin (Taniwaki, T. (88) 109)

Cerebellar granule cells
AMPA receptor; Cyclothiazide; Western Blot analysis (Hack, N.J. (87) 55)

Cerebellar granule neuron
Axonal growth cone; Microtubule-associated protein; Proline-dependent protein kinase; Microtubule stability; Neuronal differentiation (Rocha, M.G. (89) 47)

Cerebellum
Dopaminergic neuron; Astrocyte; Brain development; Growth factor (Choi-Lundberg, D.L. (85) 80)

Lurcher; Mutant mouse; Equilibrium; Motor learning (Caston, J. (86) 311)

Tau; Neuritogenesis; mRNA; Protein distribution; In vitro; Cytoskeleton; Microtubule-associated protein (Przyborski, S.A. (87) 29)

Synapse elimination; Ipsilateral projection; Purkinje cell; Climbing fiber; X-irradiation; Vibrissae (Fuhrman, Y. (87) 172)

Neuron; Endothelin; ET_A receptor; ET_B receptor; Granule cell (Lysko, P.G. (88) 96)

$GABA_A$ receptor; Weaver mice; In situ hybridization; Cerebellar development; Purkinje neuron; Mutant mouse (Beattie, C.E. (88) 171)

MAP2; Microtubule-associated protein; Neuritogenesis; In vitro; mRNA; Protein distribution (Przyborski, S.A. (89) 187)

Brain; Development; Rat; Borna disease virus; Neonatal infection; Granule cell; Neuron; Virus (Bautista, J.R. (90) 45)

Nicotine binding; α-Bungarotoxin binding; Muscarinic binding; Human; Foetus; p75 nerve growth factor receptor; Choline acetyltransferase (Court, J.A. (90) 159)

Cerebral cortex
Vibrissa; *N*-Methyl-D-aspartate; QUIS receptor; Non-NMDA receptor; Metabotropic receptor; Development; Autoradiography (Blue, M.E. (84) 11)

Astrocyte; Peripheral-type benzodiazepine receptor; Development (Itzhak, Y. (84) 62)

Estrogen receptor; Development; Immunohistochemistry; Auditory cortex; Acetylcholinesterase (Yokosuka, M. (84) 99)

$G_{\alpha i\text{-}2}$ mRNA; Rat (Eriksson, P.S. (84) 208)

Muscarinic receptor; Phosphoinositide; Brainstem; Pirenzepine; AF-DX 116; 4-DAMP; *p*-F-HHSiD (Candura, S.M. (86) 134)

Cerebral glucose utilization
Bilirubin; Development; [^{14}C]2-Deoxyglucose; Autoradiography (Roger, C. (87) 194)

Cerebral infarct
Midkine; Neurotrophic factor; Astrocyte; Repair of brain tissue (Yoshida, Y. (85) 25)

Cervical spinal cord
Corticospinal tract; Interneuron; c-*fos*; Postnatal maturation; Transient connection; Rat (Curfs, M.H.J.M. (87) 214)

c-*fos*
Biological clock; SCN; Light; Circadian rhythm; SIDS (Clegg, D.A. (84) 46)

Suprachiasmatic nucleus; Cocaine; SKF 38393; *jun*-B; Fetus; Circadian rhythm (Weaver, D.R. (85) 293)

Corticospinal tract; Cervical spinal cord; Interneuron; Postnatal maturation; Transient connection; Rat (Curfs, M.H.J.M. (87) 214)

ChAT
SDHACU; [^{3}H]HC-3 binding; Hippocampus; Developmental rat; Lead-exposure; Septal lesion; Septal cell count (Tian, X. (86) 268)

Chemoattraction
Fetal alcohol syndrome; Ethanol; Septohippocampal system; Spinal cord; Target-directed axonal growth (Barrow Heaton, M. (89) 270)

Chemoconvulsant
Caffeine; Seizure; Adenosine receptor; Methylxanthine; Ontogeny (Guillet, R. (89) 124)

Chick
Astrocyte culture; β-Receptor; Cyclic AMP; Glycogenolysis; Mouse; Noradrenaline (O'Dowd, B.S. (88) 220)

Chick embryo
Apoptosis; Motoneuron; Cellular calcium; Spinal cord; Development (Ciutat, D. (86) 167)

PKC; Glia; Astrocyte; Glutamine synthetase; Cytoskeleton; Vimentin; Cell lineage; PKA; PLD; HB; Calyculin A (Mangoura, D. (87) 1)

PKC; Astrocyte; Glia; PLC; PLD; TPA; Glutamate; Muscarinic; Calcium; Tyrosine kinase (PTK) (Mangoura, D. (87) 12)

Chicken
Pineal; Hydroxyindole-*O*-methyltransferase; Messenger RNA; Serum (Grechez-Cassiau, A. (88) 204)

Cholera toxin
Retino-hypothalamic projection; Suprachiasmatic nucleus; Development; Substance P; Neuropeptide Y; Serotonin; Rat (Takatsuji, K. (84) 261)

Choline acetyltransferase
Inorganic mercury; Amalgam; NGF; Trk tyrosine kinase receptor; p75 low-affinity NGF receptor; Brain lesion (Söderström, S. (85) 96)

Co-localization; Dopamine-β-hydroxylase; Superior cervical ganglion; Fetal; Pig; Adrenergic; Cholinergic (Wang, J.M. (90) 17)

Nicotine binding; α-Bungarotoxin binding; Muscarinic binding; Cerebellum; Human; Foetus; p75 nerve growth factor receptor (Court, J.A. (90) 159)

Cholinergic
Acetylcholinesterase; Basal forebrain; Deafferentation; Thalamocortical; Visual cortex (Kimm, E.J. (85) 283)

Co-localization; Dopamine-β-hydroxylase; Choline acetyl transferase; Superior cervical ganglion; Fetal; Pig; Adrenergic (Wang, J.M. (90) 17)

Cholinergic neuron
Ethanol; γ-Aminobutyric acid; Neuronal culture; GABAergic neuron (Spoerri, P.E. (86) 94)

Chondroitin sulfate proteoglycan
Superior colliculus; Electron microscopy; Horseradish peroxidase; Development; Neuronal death (Huxlin, K.R. (84) 77)

Chorda-tympani nerve
Growth-associated protein; Sensitive period; Axonal regeneration; Growth and development; Rat; Gustatory pathway; Facial nerve; Geniculate ganglion (Lasiter, P.S. (89) 289)

Choroid plexus
Central nervous system; Development; Iron; Endothelium; Macrophage; Microglia; Histochemistry; Rat (Moos, T. (87) 203)

Chromaffin cell
Neurotrophic factor; Neuropeptide Y; Enkephalin; Somatostatin; Catecholamine; Plasticity (Ramírez-Ordóñez, R. (87) 160)

Cichlid retina
Histogenesis; Development; PCNA; GFAP; Rhodopsin; Visinin; GnRH; TH; 5-HT; γ-Aminobutyric acid; SP; NPY; Immunohistochemistry (Negishi, K. (89) 87)

Ciliary neurotrophic factor
Progenitor cell; Transplant; Oncogene; Cytoskeleton; Peripheral nerve (Doering, L.C. (89) 56)

Circadian rhythm
Biological clock; SCN; Light; c-*fos*; SIDS (Clegg, D.A. (84) 46)

Arg-vasopressin; Suprachiasmatic nucleus; Development; Rat pup (Isobe, Y. (85) 58)

Suprachiasmatic nucleus; Cocaine; SKF 38393; c-*fos*; *jun*-B; Fetus (Weaver, D.R. (85) 293)

Radial glia; Astrocyte; Vasoactive intestinal peptide; Suprachiasmatic nucleus; Vimentin; Glial fibrillary acidic protein; Development (Botchkina, G.I. (86) 48)

c-*kit* receptor
Dorsal root ganglion; Stem cell factor; Nerve growth factor; Leukemia inhibitory factor; Substance P; Growth cone; Mouse (Hirata, T. (85) 201)

Cl^--current
Embryonic cell; Patch-clamp; $GABA_A$-receptor; (−)Pentobarbital; Alphaxalone (Valeyev, A.Y. (85) 280)

Climbing fiber
Synapse elimination; Ipsilateral projection; Cerebellum; Purkinje cell; X-irradiation; Vibrissae (Fuhrman, Y. (87) 172)

c-myc
Fetal alcohol syndrome; Alcohol-related birth defect; Alcohol; Neuron; Cell differentiation; N-myc; Growth-associated protein 43; B50; Cell, cultured (Saunders, D.E. (86) 16)

Cocaine
Microencephaly; Developmental neurotoxicity; Phosphoinositide metabolism (Tan, X.X. (84) 179)

Dopamine turnover; Norepinephrine turnover (Seidler, F.J. (85) 48)

Suprachiasmatic nucleus; SKF 38393; c-*fos*; *jun*-B; Fetus; Circadian rhythm (Weaver, D.R. (85) 293)

Amino acid; Catecholamine; Dopamine; Serotonin; Sex difference (Miller, M.W. (87) 22)

Fetal; Swallowing; Sheep; Behavior; Ovine; Ingestion (Ross, M.G. (87) 120)

β-Endorphin; Methionine-enkephalin; Dynorphin A; Dynorphin B; Brainstem; Swine; Newborn (Zhang, C. (87) 188)

Development; Stimulant; Glucose metabolism; Mechanism; Fluoxetine; Dopamine; Serotonin; GBR12909 (Frick, G.S. (88) 158)

Cochlea
Postnatal development; GAP-43; Synaptophysin; Rat (Knipper, M. (89) 73)

Cochlear nucleus
Trapezoid body; Auditory development; Growth cone; Superior olivary complex; DiI (Niblock, M.M. (85) 288)

Collateral elimination
Visual cortex; Thyroid hormone; Pyramidal tract; Transient projection (Li, C.-P. (89) 227)

Co-localization
Dopamine-β-hydroxylase; Choline acetyl transferase; Superior cervical ganglion; Fetal; Pig; Adrenergic; Cholinergic (Wang, J.M. (90) 17)

Competition
Acetylcholinesterase; Axonal growth; Elvax; Phospholine iodide; Thalamocortical (Ling, J.J. (86) 354)

Conditioned taste aversion
N-Methyl-D-aspartate; Ketamine; Fetus; Sodium pentobarbital; Anesthesia; Learning; Development; Neural plasticity (Mickley, G.A. (85) 119)

Conduction block
Myelin; Spinal cord; Explant; Potassium channel; Synapse (Shrager, P. (88) 68)

Cone opsin mRNA
Development; Fetal bovine retina; Rhodopsin mRNA; Topographic gene expression (Van Ginkel, P.R. (89) 146)

Connexin 43
Olfactory bulb; Postnatal development; Mitral cell; Granule cell; Gap junction; Neuronal-coupling (Paternostro, M.A. (84) 1)

Corpus callosum
Albinism; Neural plasticity; Binocular vision; Eye alignment; Subplate cell (Grant, S. (88) 132)

Cortex
Firing behavior; Afterhyperpolarization; Development; Ca-dependent K^+ current; BAPTA (Lorenzon, N.M. (84) 192)

Development; Inositol 1,4,5-trisphosphate; Protein kinase C; Hippocampus (Jia, W.W.-G. (85) 109)

Cortical development
Central nervous system; Muscarinic acetylcholine receptor; Acetylcholinesterase (Buwalda, B. (84) 185)

Corticospinal tract
Cervical spinal cord; Interneuron; c-*fos*; Postnatal maturation; Transient connection; Rat (Curfs, M.H.J.M. (87) 214)

Corticosterone
Stress; Adrenocorticotropin; Glucocorticoid receptors; Corticosterone binding globulin; Sex differences; Prenatal stress (McCormick, C.M. (84) 55)

Corticosterone binding globulin
Stress; Corticosterone; Adrenocorticotropin; Glucocorticoid receptors; Sex differences; Prenatal stress (McCormick, C.M. (84) 55)

Corticostriate projection
Development; Neocortex; Protomap; Rat; Neurotransplantation (Garnier, C. (89) 1)

Corticothalamic
Biotinylated dextran amine; Postnatal development; Thalamic reticular nucleus; Ventrobasal nucleus; Posterior nucleus (Frassoni, C. (90) 111)

Corticotropin-releasing factor
Rat; Infant; Ultrasonic vocalization; Maternal separation (Harvey, A.T. (87) 125)

Crayfish
Motoneuron regeneration; Neuromuscular reinnervation; Synaptic plasticity; Uropod (Lee, H.-J. (87) 179)

Creatine kinase
Nuclear magnetic resonance spectroscopy; ATP; Brain; Development; Hypoxia (Tsuji, M. (85) 192)

Critical period
N-Methyl-D-aspartate receptor; MK-801; Spinal cord; Developmental plasticity; Recovery of function (Maier, D.L. (87) 135)

Culture
Neurite initiation; Thapsigargin; Calcium; Dorsal root ganglion; Rat (Lankford, K.L. (84) 151)

Cuneate nucleus
Plasticity; Deafferentation; Brainstem; Rhesus; *Macaca* (Jain, N. (90) 24)

Current source-density analysis
Epileptogenesis; Development; Neocortex; 4-Aminopyridine; Intrinsic bursting; Patch clamp (Hoffman, S.N. (85) 64)

Cyclic AMP
Neuronal differentiation; Nerve growth factor; Protein phosphorylation; Neurite; Tyrosine kinase (Wu, C.-f. (86) 217)

Astrocyte culture; β-Receptor; Chick; Glycogenolysis; Mouse; Noradrenaline (O'Dowd, B.S. (88) 220)

Cyclic AMP, developmental effects of 6-hydroxydopamine
Adenylate cyclase, developmental effects of 6-hydroxydopamine; Adrenergic receptor, developmental effects of 6-hydroxydopamine; Heart, development of adrenergic signaling; 6-Hydroxydopamine, effects on adrenergic development; Liver, development of adrenergic signaling (Slotkin, T.A. (88) 17)

Cyclic remodelling
Growth cone; Lamella; Target tissue; Axon guidance; Motility (Gallo, G. (85) 140)

Cyclothiazide
AMPA receptor; Cerebellar granule cells; Western Blot analysis (Hack, N.J. (87) 55)

Cytochrome oxidase
Metabolism; Brainstem; Development; Perinatal; Adult; Birth; Sheep (Tai, T.-C. (86) 7)

Cytokine
Nigrostriatal system; Growth factor; Astroglia; Parkinsonism (Von Coelln, R. (89) 150)

Cytoskeleton
PKC; Glia; Astrocyte; Glutamine synthetase; Chick embryo; Vimentin; Cell lineage; PKA; PLD; HB; Calyculin A (Mangoura, D. (87) 1)

Tau; Neuritogenesis; mRNA; Protein distribution; Cerebellum; In vitro; Microtubule-associated protein (Przyborski, S.A. (87) 29)

Progenitor cell; Transplant; Ciliary neurotrophic factor; Oncogene; Peripheral nerve (Doering, L.C. (89) 56)

Dephosphorylation; Microtubule-associated protein (Dudek, S.M. (90) 54)

Cytotoxicity
Plasma membrane redox; Cellular activation; Neurotransmitter (Yong, Y. (89) 235)

Plasma membrane redox; Cellular activation; Neurogenesis; Brain development (Yong, Y. (89) 253)

D

DAMGO
Morphine; Morphine-6-glucuronide; Morphine-3-glucuronide; Receptor binding; Mu opioid receptor; Neonate; Guinea pig (Murphey, L.J. (85) 146)

4-DAMP
Muscarinic receptor; Phosphoinositide; Cerebral cortex; Brainstem; Pirenzepine; AF-DX 116; *p*-F-HHSiD (Candura, S.M. (86) 134)

Dark-rearing
Topographic map; Auditory system; Directional hearing; Development; Inferior colliculus; Auditory deprivation (Binns, K.E. (85) 14)

DARPP-32
Neurotrophin; Striatal neuron; Cell culture; Excitotoxicity; Huntington's disease; Platelet-derived growth factor (Nakao, N. (90) 92)

Deafferentation
Acetylcholinesterase; Basal forebrain; Cholinergic; Thalamocortical; Visual cortex (Kimm, E.J. (85) 283)

Plasticity; Cuneate nucleus; Brainstem; Rhesus; *Macaca* (Jain, N. (90) 24)

Death-associated mRNA
Programmed cell death; Fragmented DNA; *Weaver* mouse; Granular neuron; In situ hybridization (Owens, G.P. (86) 35)

Degeneration
Polyamine; *N*-Acetylpolyamine; Seizure; Hippocampus; Piriform cortex; Developing rat brain (Hayashi, Y. (87) 96)

Demyelination
Insulin-like growth factor; Insulin; Myelination; Remyelination; Nerve tissue; Experimental allergic encephalomyelitis (Roth, G.A. (88) 102)

Dendrite
Cat; Dendritic morphology; Deprivation; Development; Golgi method (Tieman, S.B. (84) 39)

Nucleus of solitary tract; Gustatory; Development; Intrinsic electrophysiological property; Brainstem slice; Whole cell recording (Bao, H. (86) 143)

Dendritic morphology
Cat; Dendrite; Deprivation; Development; Golgi method (Tieman, S.B. (84) 39)

Dendritic spine
Organotypic culture; Domestic chick; Quantitative morphology (Hofmann, H. (86) 283)

Estrogen; Gonadectomy; Aromatase; VMN; Hippocampus (Lewis, C. (87) 91)

Dephosphorylation
Cytoskeleton; Microtubule-associated protein (Dudek, S.M. (90) 54)

Depolarization
Programmed cell death; Neurotrophin; Nerve growth factor; Fos (Kubo, T. (85) 249)

Deprivation
Cat; Dendrite; Dendritic morphology; Development; Golgi method (Tieman, S.B. (84) 39)

Developing myotome
HNK-1; Tenascin; Adhesion molecule; *Xenopus*; Frog embryo; Developing neuromuscular junction (Somasekhar, T. (88) 53)

Developing neuromuscular junction
HNK-1; Tenascin; Adhesion molecule; *Xenopus*; Frog embryo; Developing myotome (Somasekhar, T. (88) 53)

Developing rat
Retinal ganglion cell; Bilateral projection; Double-labeling; Fluorescent tracer; Superior colliculus (Ahmed, A.K.M.F. (85) 71)

Developing rat brain
Polyamine; *N*-Acetylpolyamine; Degeneration; Seizure; Hippocampus; Piriform cortex (Hayashi, Y. (87) 96)

Development
Vibrissa; *N*-Methyl-D-aspartate; QUIS receptor; Non-NMDA receptor; Metabotropic receptor; Autoradiography; Cerebral cortex (Blue, M.E. (84) 11)

Cat; Dendrite; Dendritic morphology; Deprivation; Golgi method (Tieman, S.B. (84) 39)

Astrocyte; Cerebral cortex; Peripheral-type benzodiazepine receptor (Itzhak, Y. (84) 62)

Chondroitin sulfate proteoglycan; Superior colliculus; Electron microscopy; Horseradish peroxidase; Neuronal death (Huxlin, K.R. (84) 77)

Estrogen receptor; Cerebral cortex; Immunohistochemistry; Auditory cortex; Acetylcholinesterase (Yokosuka, M. (84) 99)

Precursor cell; Embryonal carcinoma; Neuronal differentiation; Electrophysiology; Transplant (Magnuson, D.S.K. (84) 130)

Firing behavior; Afterhyperpolarization; Cortex; Ca-dependent K^+ current; BAPTA (Lorenzon, N.M. (84) 192)

Sexual differentiation; Preoptic area; Estrogen receptor mRNA; Steroid hormone (DonCarlos, L.L. (84) 253)

Retino-hypothalamic projection; Suprachiasmatic nucleus; Cholera toxin; Substance P; Neuropeptide Y; Serotonin; Rat (Takatsuji, K. (84) 261)

Rat; Olfaction; Septal organ of Masera; Immunocytochemistry (Giannetti, N. (84) 287)

Topographic map; Auditory system; Directional hearing; Inferior colliculus; Dark-rearing; Auditory deprivation (Binns, K.E. (85) 14)

6-Phosphofructo-1-kinase; Brain; Energy metabolism; Metabolic regulation; Isozyme; Protein synthesis; mRNA; Western blotting; Northern analysis (Mhaskar, Y. (85) 54)

Arg-vasopressin; Circadian rhythm; Suprachiasmatic nucleus; Rat pup (Isobe, Y. (85) 58)

Epileptogenesis; Neocortex; 4-Aminopyridine; Intrinsic bursting; Patch clamp; Current source-density analysis (Hoffman, S.N. (85) 64)

Inositol 1,4,5-trisphosphate; Protein kinase C; Cortex; Hippocampus (Jia, W.W.-G. (85) 109)

N-Methyl-D-aspartate; Ketamine; Conditioned taste aversion; Fetus; Sodium pentobarbital; Anesthesia; Learning; Neural plasticity (Mickley, G.A. (85) 119)

Monodelphis; Marsupial; Hypothalamus; Bromodeoxyuridine; Immunohistochemistry (Iqbal, J. (85) 151)

Norepinephrine; Microdialysis; Olfaction; Learning; Tactile stimulation; Olfactory bulb (Rangel, S. (85) 187)

Nuclear magnetic resonance spectroscopy; Creatine kinase; ATP; Brain; Hypoxia (Tsuji, M. (85) 192)

PGP9.5, neurone specific; Ubiquitin; RNA in situ hybridization (Schofield, J.N. (85) 229)

Protein kinase C; Zeta; Isoform (Hunter, S.E. (85) 239)

APEX mRNA; AP endonuclease; Repair enzyme; Redox factor; Hybridization, in situ; Brain; Mouse (Ono, Y. (86) 1)

Cytochrome oxidase; Metabolism; Brainstem; Perinatal; Adult; Birth; Sheep (Tai, T.-C. (86) 7)

Radial glia; Astrocyte; Vasoactive intestinal peptide; Suprachiasmatic nucleus; Circadian rhythm; Vimentin; Glial fibrillary acidic protein (Botchkina, G.I. (86) 48)

Proenkephalin in situ hybridization; Met-enkephalin immunoreactivity; Hypothalamoseptal tract; Guinea pig (Mitchell, V. (86) 67)

Nucleus of solitary tract; Gustatory; Intrinsic electrophysiological property; Brainstem slice; Dendrite; Whole cell recording (Bao, H. (86) 143)

Apoptosis; Motoneuron; Chick embryo; Cellular calcium; Spinal cord (Ciutat, D. (86) 167)

Heat shock protein; Immunohistochemistry (Kato, M. (86) 180)

Organotypic culture; Embryonic motoneuron; Hypoglossal motoneuron; Facial motoneuron; Ocular motoneuron; Ionic conductance; Calcium potential (Eustache, I. (86) 187)

Microglia; Macrophage; Keratan sulphate; Multiple sclerosis; Proteoglycan (Bertolotto, A. (86) 233)

Preproenkephalin mRNA; Fetus; Hypothalamus; Paraventricular nucleus; Hypoxemia; Glucocorticoid (Matthews, S.G. (86) 259)

Glucose transporter; Glut 1; Blood–brain barrier (Bauer, H. (86) 317)

Brain; GluR5; Kainate receptor; RNA editing (Paschen, W. (86) 359)

Blood–brain barrier; Permeability; Blood flow; Rat; Glycine; Mannitol; Neonate (Preston, J.E. (87) 69)

Na^+ current; mRNA; Kinetic properties; Tetrodotoxin (Virginio, C. (87) 153)

Bilirubin; Cerebral glucose utilization; [^{14}C]2-Deoxyglucose; Autoradiography (Roger, C. (87) 194)

Central nervous system; Iron; Endothelium; Choroid plexus; Macrophage; Microglia; Histochemistry; Rat (Moos, T. (87) 203)

5′-Nucleotidase; Retina; Müller cell; Ependyma (Braun, N. (88) 79)

Mitochondria; *N*-Methyl-D-aspartate; Excitoxicity; Glutamate (Maragos, W.F. (88) 117)

Obesity; Medial hypothalamus; Norepinephrine release; Food intake (Jones, A.P. (88) 127)

S100; Glia; Ensheathing cell; LHRH neuron; Olfactory bulb; Cell migration; Immunofluorescence (Cummings, D.M. (88) 148)

Cocaine; Stimulant; Glucose metabolism; Mechanism; Fluoxetine; Dopamine; Serotonin; GBR12909 (Frick, G.S. (88) 158)

N-Methyl-D-aspartate receptor; [^{3}H]MK801 binding; Infant brain; Postmortem; Neonate (Andersen, D.L. (88) 178)

Growth cone; Synaptosome; Saxitoxin; Sodium channel; β2 subunit; Western blot; Immunochemistry (Wood, M.R. (88) 194)

σ Binding site; *N*-Methyl-D-aspartate antagonist; Psychosis; Epilepsy; Schizophrenia (Sircar, R. (88) 224)

Neocortex; Protomap; Rat; Neurotransplantation; Corticostriate projection (Garnier, C. (89) 1)

Monodelphis; Morphogenesis; Hypothalamus; Paraventricular nucleus; Supraoptic nucleus (Iqbal, J. (89) 11)

Cichlid retina; Histogenesis; PCNA; GFAP; Rhodopsin; Visinin; GnRH; TH; 5-HT; γ-Aminobutyric acid; SP; NPY; Immunohistochemistry (Negishi, K. (89) 87)

Animal model; Dopamine; Substantia nigra; Parkinson's disease; Postnatal; Cell death (Verney, C. (89) 115)

NADPH-diaphorase; Histochemistry; Central nervous system; Cat (Riche, D. (89) 139)

Fetal bovine retina; Rhodopsin mRNA; Cone opsin mRNA; Topographic gene expression (Van Ginkel, P.R. (89) 146)

α Adrenoceptor; Sympathetic neurone; Iris; Reverse transcription-polymerase chain reaction; Aging (Vidovic, M. (89) 309)

Marsupial; Hypothalamus; Immunohistochemistry; Neuropeptide (Iqbal, J. (90) 1)

Brain; Cerebellum; Rat; Borna disease virus; Neonatal infection; Granule cell; Neuron; Virus (Bautista, J.R. (90) 45)

Dopamine D_4 receptor; mRNA; Brain; Polymerase chain-reaction; Postnatal (Nair, V.D. (90) 180)

Developmental
Synaptosome; Release; Glutamate; 5-Hydroxytryptamine (Jennings, P. (89) 120)

Developmental gene expression
Growth-associated protein; GAP-43/B-50/F-1/pp46; SCG10; p19/stathmin; Hybridization, in situ; Rat brain; Brain ontogenesis (Sugiura, Y. (90) 73)

Developmental neurotoxicity
Cocaine; Microencephaly; Phosphoinositide metabolism (Tan, X.X. (84) 179)

Muscarinic receptor; Phosphoinositide; Mouse brain; Ethanol (Tan, X.X. (86) 348)

Developmental plasticity
N-Methyl-D-aspartate receptor; MK-801; Spinal cord; Critical period; Recovery of function (Maier, D.L. (87) 135)

Developmental rat
SDHACU; [^{3}H]HC-3 binding; ChAT; Hippocampus; Lead-exposure; Septal lesion; Septal cell count (Tian, X. (86) 268)

Development in vitro
Somatostatin; Glutamate; AMPA/Kainate; Hypothalamic neuron (Gardette, R. (86) 123)

Diabetes-obesity syndrome
Diabetes (type II); C57BL/KsJ (*db*/*db*) mice; Regional brain norepinephrine; Estradiol; Progesterone; Blood glucose levels (Garris, D.R. (89) 314)

Diabetes (type II)
C57BL/KsJ (*db*/*db*) mice; Regional brain norepinephrine; Estradiol; Progesterone; Blood glucose levels; Diabetes-obesity syndrome (Garris, D.R. (89) 314)

Differentiation
Intermediate filament; Central nervous system; Radial glial cell; mRNA localization (Dahlstrand, J. (84) 109)

Leukemia inhibitory factor; Astrocyte progenitor cell (Nakagaito, Y. (87) 220)

Retina; Potassium; HPC-1; Thy-1; Rhodopsin; Cell death (Araki, M. (89) 103)

DiI
Trapezoid body; Auditory development; Growth cone; Superior olivary complex; Cochlear nucleus (Niblock, M.M. (85) 288)

Substantia nigra; Dopamine neuron; Tyrosine hydroxylase; Ontogenesis; Migration; Radial glia; Tenascin (Kawano, H. (86) 101)

Directional hearing
Topographic map; Auditory system; Development; Inferior colliculus; Dark-rearing; Auditory deprivation (Binns, K.E. (85) 14)

Domestic chick
Organotypic culture; Dendritic spine; Quantitative morphology (Hofmann, H. (86) 283)

Dopamine
Brain-derived neurotrophic factor; Dopamine receptor; Substantia nigra; Striatum; Transplant; trkB; Intraocular graft (Strömberg, I. (84) 215)

Dopamine transporter; GBR-12935; Aging; Dopamine release; Amphetamine (Gordon, I. (85) 225)

Amino acid; Catecholamine; Cocaine; Serotonin; Sex difference (Miller, M.W. (87) 22)

Cocaine; Development; Stimulant; Glucose metabolism; Mechanism; Fluoxetine; Serotonin; GBR12909 (Frick, G.S. (88) 158)

Animal model; Substantia nigra; Parkinson's disease; Postnatal; Development; Cell death (Verney, C. (89) 115)

Animal development; Pruning; Receptor; Adolescence; Puberty (Teicher, M.H. (89) 167)

Dopamine-β-hydroxylase
Co-localization; Choline acetyl transferase; Superior cervical ganglion; Fetal; Pig; Adrenergic; Cholinergic (Wang, J.M. (90) 17)

Dopamine D-2 receptor
Mesencephalon; Dopamine synthesis; Tyrosine hydroxylase; High-performance liquid chromatography; Parkinson's disease (Van Muiswinkel, F.L. (85) 128)

Dopamine D_4 receptor
mRNA; Brain; Development; Polymerase chain-reaction; Postnatal (Nair, V.D. (90) 180)

Dopamine neuron
Substantia nigra; Tyrosine hydroxylase; Ontogenesis; Migration; Radial glia; Tenascin; DiI (Kawano, H. (86) 101)

Dopamine receptor
Brain-derived neurotrophic factor; Substantia nigra; Striatum; Transplant; trkB; Intraocular graft; Dopamine (Strömberg, I. (84) 215)

Dopamine release
Dopamine transporter; GBR-12935; Aging; Dopamine; Amphetamine (Gordon, I. (85) 225)

Dopaminergic neuron
Astrocyte; Brain development; Cerebellum; Growth factor (Choi-Lundberg, D.L. (85) 80)

Dopamine synthesis
Mesencephalon; Dopamine D-2 receptor; Tyrosine hydroxylase; High-performance liquid chromatography; Parkinson's disease (Van Muiswinkel, F.L. (85) 128)

Dopamine transporter
GBR-12935; Aging; Dopamine; Dopamine release; Amphetamine (Gordon, I. (85) 225)

Dopamine turnover
Cocaine; Norepinephrine turnover (Seidler, F.J. (85) 48)

Dorsal root ganglion
Neurite initiation; Thapsigargin; Calcium; Culture; Rat (Lankford, K.L. (84) 151)

c-*kit* receptor; Stem cell factor; Nerve growth factor; Leukemia inhibitory factor; Substance P; Growth cone; Mouse (Hirata, T. (85) 201)

Double-labeling
Retinal ganglion cell; Bilateral projection; Fluorescent tracer; Superior colliculus; Developing rat (Ahmed, A.K.M.F. (85) 71)

Down syndrome
Apolipoprotein E; Amyloid precursor protein; Senile plaque; Astrocyte; Senile dementia of Alzheimer type (Arai, Y. (87) 228)

DRG
Neuropeptide; Nerve growth factor; Adult neuronal culture; Aging (Jiang, Z.-G. (90) 190)

DRG neuron
Neuritogenesis; Aging; NGF; Neuron culture (Jiang, Z.-G. (85) 212)

Dynorphin A
Cocaine; β-Endorphin; Methionine-enkephalin; Dynorphin B; Brainstem; Swine; Newborn (Zhang, C. (87) 188)

Dynorphin B
Cocaine; β-Endorphin; Methionine-enkephalin; Dynorphin A; Brainstem; Swine; Newborn (Zhang, C. (87) 188)

E

EAP-300 polypeptide
Neural development; Cell differentiation; Radial glia; IFAPa-400; Leucine-zipper (Kelly, M.M. (85) 31)

EDL
Partial denervation; Leupeptin; Motor unit (Tyč, F. (88) 186)

Electron microscopy
Chondroitin sulfate proteoglycan; Superior colliculus; Horseradish peroxidase; Development; Neuronal death (Huxlin, K.R. (84) 77)

Static culture; γ-Irradiation; Biocytin tracing; Synaptogenesis (Gaiarsa, J.-L. (86) 250)

Serotonin; Immunocytochemistry; Enucleation (Arce, E.A. (90) 168)

Electrophysiology
Precursor cell; Embryonal carcinoma; Neuronal differentiation; Development; Transplant (Magnuson, D.S.K. (84) 130)

Elvax
Acetylcholinesterase; Axonal growth; Competition; Phospholine iodide; Thalamocortical (Ling, J.J. (86) 354)

Embryonal carcinoma
Precursor cell; Neuronal differentiation; Electrophysiology; Development; Transplant (Magnuson, D.S.K. (84) 130)

Precursor cell; Transmitter responsiveness (Magnuson, D.S.K. (90) 141)

Embryonic cell
Patch-clamp; $GABA_A$-receptor; (−)Pentobarbital; Alphaxalone; Cl^--current (Valeyev, A.Y. (85) 280)

Embryonic glial cell
Hyaluronan; Basic fibroblast growth factor; Transforming growth factor-β; Extracellular matrix (Deyst, K.A. (88) 122)

Embryonic motoneuron
Organotypic culture; Development; Hypoglossal motoneuron; Facial motoneuron; Ocular motoneuron; Ionic conductance; Calcium potential (Eustache, I. (86) 187)

Encephalopathy
Hypoxic/ischemic; Immature; Microglia; Astrocyte; Immunocytochemistry (Ohno, M. (84) 294)

β-Endorphin
Cocaine; Methionine-enkephalin; Dynorphin A; Dynorphin B; Brainstem; Swine; Newborn (Zhang, C. (87) 188)

Endothelin
Neuron; ET_A receptor; ET_B receptor; Granule cell; Cerebellum (Lysko, P.G. (88) 96)

Endothelium
Central nervous system; Development; Iron; Choroid plexus; Macrophage; Microglia; Histochemistry; Rat (Moos, T. (87) 203)

Nitric oxide synthase; Immunohistochemistry; Human cerebrum; Brain development (Miyawaki, T. (89) 161)

Energy metabolism
6-Phosphofructo-1-kinase; Development; Brain; Metabolic regulation; Isozyme; Protein synthesis; mRNA; Western blotting; Northern analysis (Mhaskar, Y. (85) 54)

Enkephalin
Chromaffin cell; Neurotrophic factor; Neuropeptide Y; Somatostatin; Catecholamine; Plasticity (Ramírez-Ordóñez, R. (87) 160)

Ensheathing cell
S100; Glia; LHRH neuron; Olfactory bulb; Development; Cell migration; Immunofluorescence (Cummings, D.M. (88) 148)

Enteric nervous system
Nitric oxide; Rat; Pancreatic neuron (Tharakan, T. (84) 26)

Entorhinal cortex
Ontogenesis; Epileptiform activity; Rat; Hippocampus; Field potential (Gloveli, T. (87) 145)

Enucleation
Serotonin; Immunocytochemistry; Electron microscopy (Arce, E.A. (90) 168)

Ependyma
5′-Nucleotidase; Retina; Müller cell; Development (Braun, N. (88) 79)

Epidermal growth factor
Subventricular zone; Gliogenesis; Neurogenesis; Stem cell; Progenitor (Weickert, C.S. (86) 203)

Epigenetic signal
Fos; Immediate-early gene; Ontogeny; Spinal cord neuron; Mouse (Agoston, D.V. (89) 173)

Epilepsy
Hyperthermia; Rat; Glutamate; NMDA receptor; MK-801; Seizure (Morimoto, T. (84) 204)

Development; σ Binding site; *N*-Methyl-D-aspartate antagonist; Psychosis; Schizophrenia (Sircar, R. (88) 224)

Epileptiform activity
Ontogenesis; Rat; Hippocampus; Entorhinal cortex; Field potential (Gloveli, T. (87) 145)

Epileptogenesis
Development; Neocortex; 4-Aminopyridine; Intrinsic bursting; Patch clamp; Current source-density analysis (Hoffman, S.N. (85) 64)

Equilibrium
Lurcher; Mutant mouse; Cerebellum; Motor learning (Caston, J. (86) 311)

Estradiol
Diabetes (type II); C57BL/KsJ (*db/db*) mice; Regional brain norepinephrine; Progesterone; Blood glucose levels; Diabetes-obesity syndrome (Garris, D.R. (89) 314)

Estrogen
Sexual differentiation; Zebra finch; Higher vocal center; Birdsong; Neuronal survival (Burek, M.J. (85) 220)

Dendritic spine; Gonadectomy; Aromatase; VMN; Hippocampus (Lewis, C. (87) 91)

Estrogen receptor
Cerebral cortex; Development; Immunohistochemistry; Auditory cortex; Acetylcholinesterase (Yokosuka, M. (84) 99)

Estrogen receptor mRNA
Sexual differentiation; Preoptic area; Development; Steroid hormone (DonCarlos, L.L. (84) 253)

Ethanol
Fetal alcohol syndrome; Ethanol neurotoxicity; Neurotrophic factor; NGF; bFGF; Neuroprotection; Septohippocampal system (Heaton, M.B. (85) 1)

γ-Aminobutyric acid; Neuronal culture; Cholinergic neuron; GABAergic neuron (Spoerri, P.E. (86) 94)

Muscarinic receptor; Phosphoinositide; Mouse brain; Developmental neurotoxicity (Tan, X.X. (86) 348)

Fetal alcohol syndrome; Chemoattraction; Septohippocampal system; Spinal cord; Target-directed axonal growth (Barrow Heaton, M. (89) 270)

Ethanol neurotoxicity
Fetal alcohol syndrome; Ethanol; Neurotrophic factor; NGF; bFGF; Neuroprotection; Septohippocampal system (Heaton, M.B. (85) 1)

ET_A receptor
Neuron; Endothelin; ET_B receptor; Granule cell; Cerebellum (Lysko, P.G. (88) 96)

ET_B receptor
Neuron; Endothelin; ET_A receptor; Granule cell; Cerebellum (Lysko, P.G. (88) 96)

Excitatory amino acid
Kainic acid; Status epilepticus; Inositol-trisphosphate; Seizure-induced brain damage (Carmant, L. (89) 67)

Excitotoxicity
Free radical; Xanthine dehydrogenase; Xanthine oxidase; Olfactory cortex; Hippocampus (Battelli, M.G. (86) 340)

Urea cycle; Quinolinic acid; *N*-Methyl-D-aspartate; Ornithine carbamoyltransferase deficiency; Animal model; *Sparse fur* mouse (Robinson, M.B. (90) 35)

Neurotrophin; Striatal neuron; Cell culture; DARPP-32; Huntington's disease; Platelet-derived growth factor (Nakao, N. (90) 92)

Excitoxicity
Mitochondria; *N*-Methyl-D-aspartate; Glutamate; Development (Maragos, W.F. (88) 117)

Experimental allergic encephalomyelitis
Insulin-like growth factor; Insulin; Myelination; Demyelination; Remyelination; Nerve tissue (Roth, G.A. (88) 102)

Explant
Myelin; Spinal cord; Conduction block; Potassium channel; Synapse (Shrager, P. (88) 68)

Extracellular matrix
MMP-9 mRNA; Gelatinase activity; Neurogenesis; Hybridization, in situ; Brain vascularization (Cañete Soler, R. (88) 37)

Hyaluronan; Basic fibroblast growth factor; Transforming growth factor-β; Embryonic glial cell (Deyst, K.A. (88) 122)

Eye alignment
Albinism; Corpus callosum; Neural plasticity; Binocular vision; Subplate cell (Grant, S. (88) 132)

F

Facial motoneuron
Organotypic culture; Development; Embryonic motoneuron; Hypoglossal motoneuron; Ocular motoneuron; Ionic conductance; Calcium potential (Eustache, I. (86) 187)

Facial nerve
Growth-associated protein; Sensitive period; Axonal regeneration; Growth and development; Rat; Gustatory pathway; Chorda-tympani nerve; Geniculate ganglion (Lasiter, P.S. (89) 289)

Fascia dentata
Hippocampal formation; Granule cell; Axon; Neuron development; Neurobiotin; Intracellular filling (Yan, W. (90) 194)

Fatty acid-binding protein
Immunohistochemistry; Neurite formation; Synapse maturation; Mouse (Sellner, P.A. (89) 33)

Female sexual behavior
Sexual differentiation; Luteinizing hormone; Postnatal period (Diaz, D.R. (86) 227)

Fetal
Cocaine; Swallowing; Sheep; Behavior; Ovine; Ingestion (Ross, M.G. (87) 120)

Co-localization; Dopamine-β-hydroxylase; Choline acetyl transferase; Superior cervical ganglion; Pig; Adrenergic; Cholinergic (Wang, J.M. (90) 17)

Fetal alcohol syndrome
Ethanol; Ethanol neurotoxicity; Neurotrophic factor; NGF; bFGF; Neuroprotection; Septohippocampal system (Heaton, M.B. (85) 1)

Alcohol-related birth defect; Alcohol; Neuron; Cell differentiation; N-myc; c-myc; Growth-associated protein 43; B50; Cell, cultured (Saunders, D.E. (86) 16)

Ethanol; Chemoattraction; Septohippocampal system; Spinal cord; Target-directed axonal growth (Barrow Heaton, M. (89) 270)

Fetal bovine retina
Development; Rhodopsin mRNA; Cone opsin mRNA; Topographic gene expression (Van Ginkel, P.R. (89) 146)

Fetal brain injury
Neuronal cell death; Brain development; Thalamus; Neocortex; Thalamic ventrobasal complex (Loopuijt, L.D. (85) 259)

Neonatal brain injury; Neuronal cell death; Abnormal brain development; Thalamus; Neocortex (Jackson III, G.F. (90) 62)

Fetus
Baboon; Hypothalamus; Androgen receptor; Pituitary; Pregnancy (Wu, S.S. (84) 278)

N-Methyl-D-aspartate; Ketamine; Conditioned taste aversion; Sodium pentobarbital; Anesthesia; Learning; Development; Neural plasticity (Mickley, G.A. (85) 119)

Suprachiasmatic nucleus; Cocaine; SKF 38393; c-*fos*; *jun*-B; Circadian rhythm (Weaver, D.R. (85) 293)

Preproenkephalin mRNA; Hypothalamus; Paraventricular nucleus; Development; Hypoxemia; Glucocorticoid (Matthews, S.G. (86) 259)

Adenosine; Receptor; Heart; Brain (Rivkees, S.A. (89) 202)

bFGF
Fetal alcohol syndrome; Ethanol; Ethanol neurotoxicity; Neurotrophic factor; NGF; Neuroprotection; Septohippocampal system (Heaton, M.B. (85) 1)

Field potential
Ontogenesis; Epileptiform activity; Rat; Hippocampus; Entorhinal cortex (Gloveli, T. (87) 145)

Firing behavior
Afterhyperpolarization; Development; Cortex; Ca-dependent K^+ current; BAPTA (Lorenzon, N.M. (84) 192)

Flow cytometry
Glutamic acid decarboxylase; Neurofilament protein; Human neuron (Rozental, R. (85) 161)

Fluorescent tracer
Retinal ganglion cell; Bilateral projection; Double-labeling; Superior colliculus; Developing rat (Ahmed, A.K.M.F. (85) 71)

(*S*)α-Fluoromethylhistidine
Ontogeny; Histamine H_1 receptor; Histamine H_3 receptor; 6-Hydroxydopamine; Histamine; L-Histidine decarboxylase (Ryu, J.H. (87) 101)

Fluoxetine
Cocaine; Development; Stimulant; Glucose metabolism; Mechanism; Dopamine; Serotonin; GBR12909 (Frick, G.S. (88) 158)

Foetus
Nicotine binding; α-Bungarotoxin binding; Muscarinic binding; Cerebellum; Human; p75 nerve growth factor receptor; Choline acetyltransferase (Court, J.A. (90) 159)

Food intake
Obesity; Medial hypothalamus; Norepinephrine release; Development (Jones, A.P. (88) 127)

Fos
Programmed cell death; Depolarization; Neurotrophin; Nerve growth factor (Kubo, T. (85) 249)

Immediate-early gene; Ontogeny; Epigenetic signal; Spinal cord neuron; Mouse (Agoston, D.V. (89) 173)

Fos immunoreactivity
Suprachiasmatic nucleus; Astrocyte; GFAP; Ontogenesis; Retinohypothalamic tract (Lavialle, M. (86) 275)

Fos-related antigen
cAMP responsive element; Brain; Gene regulation; AP-1 element (Pennypacker, K.R. (86) 242)

Fragmented DNA
Programmed cell death; Death-associated mRNA; *Weaver* mouse; Granular neuron; In situ hybridization (Owens, G.P. (86) 35)

Free radical
Excitotoxicity; Xanthine dehydrogenase; Xanthine oxidase; Olfactory cortex; Hippocampus (Battelli, M.G. (86) 340)

Frog
NADPH-diaphorase; Nitric oxide synthase; Spinal cord; Metamorphosis (Crowe, M.J. (86) 155)

Gonadotropin-releasing hormone; Immunohistochemistry; Brain; Ontogenesis (D'Aniello, B. (89) 281)

Frog embryo
HNK-1; Tenascin; Adhesion molecule; *Xenopus*; Developing myotome; Developing neuromuscular junction (Somasekhar, T. (88) 53)

G

G_o
GTP-binding protein; Neuronal growth cone; Axonal growth; PC12 cell; Protein kinase C (Xie, R. (87) 77)

GABAergic neuron
Ethanol; γ-Aminobutyric acid; Neuronal culture; Cholinergic neuron (Spoerri, P.E. (86) 94)

$GABA_A$-receptor
Embryonic cell; Patch-clamp; (−)Pentobarbital; Alphaxalone; Cl^--current (Valeyev, A.Y. (85) 280)

Weaver mice; In situ hybridization; Cerebellar development; Purkinje neuron; Cerebellum; Mutant mouse (Beattie, C.E. (88) 171)

GAP-43
Human CNS development; Monoamine; Immunocytochemistry (Milosevic, A. (84) 282)

Neurite outgrowth; Neuronal maturation; Growth cone; Adhesion; Neuronal surface protease; Thrombin; Hirudin (Shea, T.B. (87) 87)

Cochlea; Postnatal development; Synaptophysin; Rat (Knipper, M. (89) 73)

GAP-43 / B-50 / F-1 / pp46
Growth-associated protein; SCG10; p19/stathmin; Hybridization, in situ; Rat brain; Brain ontogenesis; Developmental gene expression (Sugiura, Y. (90) 73)

Gap junction
Olfactory bulb; Postnatal development; Mitral cell; Granule cell; Neuronal-coupling; Connexin 43 (Paternostro, M.A. (84) 1)

GBR12909
Cocaine; Development; Stimulant; Glucose metabolism; Mechanism; Fluoxetine; Dopamine; Serotonin (Frick, G.S. (88) 158)

GBR-12935
Dopamine transporter; Aging; Dopamine; Dopamine release; Amphetamine (Gordon, I. (85) 225)

GD_3 accessibility
Antibody binding inhibition; Membrane rearrangement; Neural differentiation (Allende, M.L. (90) 102)

Gelatinase activity
MMP-9 mRNA; Neurogenesis; Extracellular matrix; Hybridization, in situ; Brain vascularization (Cañete Soler, R. (88) 37)

Gene expression
Visual development; Plasticity; Proto-oncogene; Zif-268; Krox-24 (Kaplan, I.V. (90) 174)

Gene regulation
cAMP responsive element; Brain; AP-1 element; Fos-related antigen (Pennypacker, K.R. (86) 242)

Geniculate ganglion
Growth-associated protein; Sensitive period; Axonal regeneration; Growth and development; Rat; Gustatory pathway; Chorda-tympani nerve; Facial nerve (Lasiter, P.S. (89) 289)

Germinal matrix
Intraventricular hemorrhage; Preterm; Microvasculature (Ment, L.R. (84) 142)

GFAP
Suprachiasmatic nucleus; Astrocyte; Ontogenesis; Fos immunoreactivity; Retinohypothalamic tract (Lavialle, M. (86) 275)

Cichlid retina; Histogenesis; Development; PCNA; Rhodopsin; Visinin; GnRH; TH; 5-HT; γ-Aminobutyric acid; SP; NPY; Immunohistochemistry (Negishi, K. (89) 87)

Glia
Serotonin; Regeneration; Neuronal plasticity; Reactive astrocyte; S-100; Neurotrophic factor (Zhou, F.C. (84) 89)

PKC; Astrocyte; Glutamine synthetase; Chick embryo; Cytoskeleton; Vimentin; Cell lineage; PKA; PLD; HB; Calyculin A (Mangoura, D. (87) 1)

PKC; Astrocyte; PLC; PLD; Chick embryo; TPA; Glutamate; Muscarinic; Calcium; Tyrosine kinase (PTK) (Mangoura, D. (87) 12)

S100; Ensheathing cell; LHRH neuron; Olfactory bulb; Development; Cell migration; Immunofluorescence (Cummings, D.M. (88) 148)

Glial cell
Brain development; Metalloproteinase; Neuron; Plasminogen activator (Del Bigio, M.R. (86) 345)

Oligodendrocyte; Retina; Müller cell; Tissue culture; Myelin marker; O-antigen (Scherer, J. (89) 214)

Glial fibrillary acidic protein
Calcium ion; Calcium channel; Astrocyte; Protein phosphorylation; Hippocampal slice (rat); Calcium/calmodulin-dependent protein kinase (Wofchuk, S.T. (85) 181)

Radial glia; Astrocyte; Vasoactive intestinal peptide; Suprachiasmatic nucleus; Circadian rhythm; Vimentin; Development (Botchkina, G.I. (86) 48)

Gliogenesis
Epidermal growth factor; Subventricular zone; Neurogenesis; Stem cell; Progenitor (Weickert, C.S. (86) 203)

Glucocorticoid
Preproenkephalin mRNA; Fetus; Hypothalamus; Paraventricular nucleus; Development; Hypoxemia (Matthews, S.G. (86) 259)

Glucocorticoid receptors
Stress; Corticosterone; Adrenocorticotropin; Corticosterone binding globulin; Sex differences; Prenatal stress (McCormick, C.M. (84) 55)

Glucose metabolism
Cocaine; Development; Stimulant; Mechanism; Fluoxetine; Dopamine; Serotonin; GBR12909 (Frick, G.S. (88) 158)

Glucose transporter
Glut 1; Blood–brain barrier; Development (Bauer, H. (86) 317)

GluR5
Brain; Development; Kainate receptor; RNA editing (Paschen, W. (86) 359)

Glut 1
Glucose transporter; Blood–brain barrier; Development (Bauer, H. (86) 317)

Glutamate
Hyperthermia; Rat; NMDA receptor; MK-801; Seizure; Epilepsy (Morimoto, T. (84) 204)

Somatostatin; AMPA/Kainate; Hypothalamic neuron; Development in vitro (Gardette, R. (86) 123)

PKC; Astrocyte; Glia; PLC; PLD; Chick embryo; TPA; Muscarinic; Calcium; Tyrosine kinase (PTK) (Mangoura, D. (87) 12)

Mitochondria; *N*-Methyl-D-aspartate; Excitoxicity; Development (Maragos, W.F. (88) 117)

Synaptosome; Release; Developmental; 5-Hydroxytryptamine (Jennings, P. (89) 120)

Proteoglycan; Signal transduction; Nitric oxide; Protein kinase C; Calcium-calmodulin type II kinase (Dow, K.E. (89) 320)

Aspartate; Blood–brain barrier; *N*-Methyl-D-aspartate; Mannitol; Blood–cerebrospinal fluid barrier (Al-Sarraf, H. (90) 151)

Glutamic acid decarboxylase
Flow cytometry; Neurofilament protein; Human neuron (Rozental, R. (85) 161)

Glutamine synthetase
PKC; Glia; Astrocyte; Chick embryo; Cytoskeleton; Vimentin; Cell lineage; PKA; PLD; HB; Calyculin A (Mangoura, D. (87) 1)

Glycine
Blood–brain barrier; Permeability; Blood flow; Rat; Mannitol; Neonate; Development (Preston, J.E. (87) 69)

Glycogenolysis
Astrocyte culture; β-Receptor; Cyclic AMP; Chick; Mouse; Noradrenaline (O'Dowd, B.S. (88) 220)

$G_{\alpha i\text{-}2}$ mRNA
Cerebral cortex; Rat (Eriksson, P.S. (84) 208)

GnRH
Cichlid retina; Histogenesis; Development; PCNA; GFAP; Rhodopsin; Visinin; TH; 5-HT; γ-Aminobutyric acid; SP; NPY; Immunohistochemistry (Negishi, K. (89) 87)

Golgi method
Cat; Dendrite; Dendritic morphology; Deprivation; Development (Tieman, S.B. (84) 39)

Gonadectomy
Dendritic spine; Estrogen; Aromatase; VMN; Hippocampus (Lewis, C. (87) 91)

Gonadotropin-releasing hormone
Immunohistochemistry; Brain; Ontogenesis; Frog (D'Aniello, B. (89) 281)

G-protein
PC12 cell; Neuronal development; Nerve growth factor (Andreopoulos, S. (88) 30)

Granular neuron
Programmed cell death; Death-associated mRNA; Fragmented DNA; *Weaver* mouse; In situ hybridization (Owens, G.P. (86) 35)

Granule cell
Olfactory bulb; Postnatal development; Mitral cell; Gap junction; Neuronal-coupling; Connexin 43 (Paternostro, M.A. (84) 1)

Neuron; Endothelin; ET_A receptor; ET_B receptor; Cerebellum (Lysko, P.G. (88) 96)

Brain; Cerebellum; Development; Rat; Borna disease virus; Neonatal infection; Neuron; Virus (Bautista, J.R. (90) 45)

Cell migration; Reaggregation culture, K252a; Kinase inhibitor; Microfilament (Kobayashi, S. (90) 122)

Hippocampal formation; Fascia dentata; Axon; Neuron development; Neurobiotin; Intracellular filling (Yan, W. (90) 194)

Growth and development
Growth-associated protein; Sensitive period; Axonal regeneration; Rat; Gustatory pathway; Chorda-tympani nerve; Facial nerve; Geniculate ganglion (Lasiter, P.S. (89) 289)

Growth-associated protein 43
Fetal alcohol syndrome; Alcohol-related birth defect; Alcohol; Neuron; Cell differentiation; N-myc; c-myc; B50; Cell, cultured (Saunders, D.E. (86) 16)

Growth-associated protein
Sensitive period; Axonal regeneration; Growth and development; Rat; Gustatory pathway; Chorda-tympani nerve; Facial nerve; Geniculate ganglion (Lasiter, P.S. (89) 289)

GAP-43/B-50/F-1/pp46; SCG10; p19/stathmin; Hybridization, in situ; Rat brain; Brain ontogenesis; Developmental gene expression (Sugiura, Y. (90) 73)

Growth cone
Lamella; Cyclic remodelling; Target tissue; Axon guidance; Motility (Gallo, G. (85) 140)

c-*kit* receptor; Dorsal root ganglion; Stem cell factor; Nerve growth factor; Leukemia inhibitory factor; Substance P; Mouse (Hirata, T. (85) 201)

Trapezoid body; Auditory development; Superior olivary complex; Cochlear nucleus; DiI (Niblock, M.M. (85) 288)

GAP-43; Neurite outgrowth; Neuronal maturation; Adhesion; Neuronal surface protease; Thrombin; Hirudin (Shea, T.B. (87) 87)

Synaptosome; Saxitoxin; Sodium channel; Development; β2 subunit; Western blot; Immunochemistry (Wood, M.R. (88) 194)

Acetylated microtubule; Neurite outgrowth (Hadley, R.D. (89) 129)

Growth control
Cell lineage; Retina; Stem cell; *Xenopus laevis* (Wetts, R. (86) 57)

Growth factor
Dopaminergic neuron; Astrocyte; Brain development; Cerebellum (Choi-Lundberg, D.L. (85) 80)

Central auditory system; Ontogeny; In situ hybridization (Luo, L. (86) 24)

Nigrostriatal system; Cytokine; Astroglia; Parkinsonism (Von Coelln, R. (89) 150)

GTP-binding protein
G_o; Neuronal growth cone; Axonal growth; PC12 cell; Protein kinase C (Xie, R. (87) 77)

Guinea pig
DAMGO; Morphine; Morphine-6-glucuronide; Morphine-3-glucuronide; Receptor binding; Mu opioid receptor; Neonate (Murphey, L.J. (85) 146)

Development; Proenkephalin in situ hybridization; Met-enkephalin immunoreactivity; Hypothalamoseptal tract (Mitchell, V. (86) 67)

Gustatory
Nucleus of solitary tract; Development; Intrinsic electrophysiological property; Brainstem slice; Dendrite; Whole cell recording (Bao, H. (86) 143)

Gustatory pathway
Growth-associated protein; Sensitive period; Axonal regeneration; Growth and development; Rat; Chorda-tympani nerve; Facial nerve; Geniculate ganglion (Lasiter, P.S. (89) 289)

H

HB
PKC; Glia; Astrocyte; Glutamine synthetase; Chick embryo; Cytoskeleton; Vimentin; Cell lineage; PKA; PLD; Calyculin A (Mangoura, D. (87) 1)

Heart
Adenosine; Receptor; Fetus; Brain (Rivkees, S.A. (89) 202)

Heart, development of adrenergic signaling
Adenylate cyclase, developmental effects of 6-hydroxydopamine; Adrenergic receptor, developmental effects of 6-hydroxydopamine; Cyclic AMP, developmental effects of 6-hydroxydopamine; 6-Hydroxydopamine, effects on adrenergic development; Liver, development of adrenergic signaling (Slotkin, T.A. (88) 17)

Heat shock protein
Immunohistochemistry; Development (Kato, M. (86) 180)

Heparan sulfate proteoglycan
Vascular endothelial cell; Neurite outgrowth; Adhesion molecule; Vitronectin (Isahara, K. (84) 164)

[^{3}H]HC-3 binding
SDHACU; ChAT; Hippocampus; Developmental rat; Lead-exposure; Septal lesion; Septal cell count (Tian, X. (86) 268)

***p*-F-HHSiD**
Muscarinic receptor; Phosphoinositide; Cerebral cortex; Brainstem; Pirenzepine; AF-DX 116; 4-DAMP (Candura, S.M. (86) 134)

Higher vocal center
Sexual differentiation; Estrogen; Zebra finch; Birdsong; Neuronal survival (Burek, M.J. (85) 220)

High-performance liquid chromatography
Mesencephalon; Dopamine D-2 receptor; Dopamine synthesis; Tyrosine hydroxylase; Parkinson's disease (Van Muiswinkel, F.L. (85) 128)

Hippocampal formation
Fascia dentata; Granule cell; Axon; Neuron development; Neurobiotin; Intracellular filling (Yan, W. (90) 194)

Hippocampal slice (rat)
Calcium ion; Calcium channel; Astrocyte; Glial fibrillary acidic protein; Protein phosphorylation; Calcium/calmodulin-dependent protein kinase (Wofchuk, S.T. (85) 181)

Hippocampus
Opioid peptide; Basal ganglia; Olfactory bulb (Casini, G. (84) 233)

Development; Inositol 1,4,5-trisphosphate; Protein kinase C; Cortex (Jia, W.W.-G. (85) 109)

SDHACU; [^{3}H]HC-3 binding; ChAT; Developmental rat; Lead-exposure; Septal lesion; Septal cell count (Tian, X. (86) 268)

Excitotoxicity; Free radical; Xanthine dehydrogenase; Xanthine oxidase; Olfactory cortex (Battelli, M.G. (86) 340)

Dendritic spine; Estrogen; Gonadectomy; Aromatase; VMN (Lewis, C. (87) 91)

Polyamine; *N*-Acetylpolyamine; Degeneration; Seizure; Piriform cortex; Developing rat brain (Hayashi, Y. (87) 96)

Ontogenesis; Epileptiform activity; Rat; Entorhinal cortex; Field potential (Gloveli, T. (87) 145)

Hirudin
GAP-43; Neurite outgrowth; Neuronal maturation; Growth cone; Adhesion; Neuronal surface protease; Thrombin (Shea, T.B. (87) 87)

Histamine
Ontogeny; Histamine H_1 receptor; Histamine H_3 receptor; 6-Hydroxydopamine; (*S*)α-Fluoromethylhistidine; L-Histidine decarboxylase (Ryu, J.H. (87) 101)

Histamine H_1 receptor
Ontogeny; Histamine H_3 receptor; 6-Hydroxydopamine; (*S*)α-Fluoromethylhistidine; Histamine; L-Histidine decarboxylase (Ryu, J.H. (87) 101)

Histamine H_3 receptor
Ontogeny; Histamine H_1 receptor; 6-Hydroxydopamine; (*S*)α-Fluoromethylhistidine; Histamine; L-Histidine decarboxylase (Ryu, J.H. (87) 101)

L-Histidine decarboxylase
Ontogeny; Histamine H_1 receptor; Histamine H_3 receptor; 6-Hydroxydopamine; (*S*)α-Fluoromethylhistidine; Histamine (Ryu, J.H. (87) 101)

Histochemistry
Rat; Barrel; Infraorbital nerve; Somatosensory cortex (Chiaia, N.L. (84) 271)

Central nervous system; Development; Iron; Endothelium; Choroid plexus; Macrophage; Microglia; Rat (Moos, T. (87) 203)

NADPH-diaphorase; Development; Central nervous system; Cat (Riche, D. (89) 139)

Histogenesis
Cichlid retina; Development; PCNA; GFAP; Rhodopsin; Visinin; GnRH; TH; 5-HT; γ-Aminobutyric acid; SP; NPY; Immunohistochemistry (Negishi, K. (89) 87)

bHLH protein
Mash-1; Retina; Neurogenesis; Photoreceptor; Opsin (Ahmad, I. (90) 184)

[^{3}H]MK801 binding
N-Methyl-D-aspartate receptor; Infant brain; Postmortem; Development; Neonate (Andersen, D.L. (88) 178)

HNK-1
Tenascin; Adhesion molecule; *Xenopus*; Frog embryo; Developing myotome; Developing neuromuscular junction (Somasekhar, T. (88) 53)

Horseradish peroxidase
Chondroitin sulfate proteoglycan; Superior colliculus; Electron microscopy; Development; Neuronal death (Huxlin, K.R. (84) 77)

HPC-1
Retina; Potassium; Differentiation; Thy-1; Rhodopsin; Cell death (Araki, M. (89) 103)

HPLC
Puberty; Taurine; LH; LHRH; γ-Aminobutyric acid; Amino acid neurotransmitter (Arias, P. (85) 137)

5-HT
Cichlid retina; Histogenesis; Development; PCNA; GFAP; Rhodopsin; Visinin; GnRH; TH; γ-Aminobutyric acid; SP; NPY; Immunohistochemistry (Negishi, K. (89) 87)

Human
Nicotine binding; α-Bungarotoxin binding; Muscarinic binding; Cerebellum; Foetus; p75 nerve growth factor receptor; Choline acetyltransferase (Court, J.A. (90) 159)

Human cerebrum
Nitric oxide synthase; Endothelium; Immunohistochemistry; Brain development (Miyawaki, T. (89) 161)

Human CNS development
GAP-43; Monoamine; Immunocytochemistry (Milosevic, A. (84) 282)

Human neuron
Flow cytometry; Glutamic acid decarboxylase; Neurofilament protein (Rozental, R. (85) 161)

Huntington's disease
Neurotrophin; Striatal neuron; Cell culture; DARPP-32; Excitotoxicity; Platelet-derived growth factor (Nakao, N. (90) 92)

Hyaluronan
Basic fibroblast growth factor; Transforming growth factor-β; Extracellular matrix; Embryonic glial cell (Deyst, K.A. (88) 122)

Hybridization, in situ
APEX mRNA; AP endonuclease; Repair enzyme; Redox factor; Brain; Development; Mouse (Ono, Y. (86) 1)

MMP-9 mRNA; Gelatinase activity; Neurogenesis; Extracellular matrix; Brain vascularization (Cañete Soler, R. (88) 37)

Growth-associated protein; GAP-43/B-50/F-1/pp46; SCG10; p19/stathmin; Rat brain; Brain ontogenesis; Developmental gene expression (Sugiura, Y. (90) 73)

6-Hydroxydopamine
Ontogeny; Histamine H_1 receptor; Histamine H_3 receptor; (*S*)α-Fluoromethylhistidine; Histamine; L-Histidine decarboxylase (Ryu, J.H. (87) 101)

6-Hydroxydopamine, effects on adrenergic development
Adenylate cyclase, developmental effects of 6-hydroxydopamine; Adrenergic receptor, developmental effects of 6-hydroxydopamine; Cyclic AMP, developmental effects of 6-hydroxydopamine; Heart, development of adrenergic signaling; Liver, development of adrenergic signaling (Slotkin, T.A. (88) 17)

Hydroxyindole-*O*-methyltransferase
Chicken; Pineal; Messenger RNA; Serum (Grechez-Cassiau, A. (88) 204)

5-Hydroxytryptamine
Synaptosome; Release; Developmental; Glutamate (Jennings, P. (89) 120)

Hyperthermia
Rat; Glutamate; NMDA receptor; MK-801; Seizure; Epilepsy (Morimoto, T. (84) 204)

Hypoglossal motoneuron
Organotypic culture; Development; Embryonic motoneuron; Facial motoneuron; Ocular motoneuron; Ionic conductance; Calcium potential (Eustache, I. (86) 187)

Hypothalamic neuron
Somatostatin; Glutamate; AMPA/Kainate; Development in vitro (Gardette, R. (86) 123)

Hypothalamoseptal tract
Development; Proenkephalin in situ hybridization; Met-enkephalin immunoreactivity; Guinea pig (Mitchell, V. (86) 67)

Hypothalamus
Baboon; Androgen receptor; Fetus; Pituitary; Pregnancy (Wu, S.S. (84) 278)

Monodelphis; Marsupial; Development; Bromodeoxyuridine; Immunohistochemistry (Iqbal, J. (85) 151)

Vasopressin; Suprachiasmatic nucleus; Sexual behavior; Sexual partner preference; Aromatase blocker; Male rat (Swaab, D.F. (85) 273)

Preproenkephalin mRNA; Fetus; Paraventricular nucleus; Development; Hypoxemia; Glucocorticoid (Matthews, S.G. (86) 259)

Monodelphis; Morphogenesis; Development; Paraventricular nucleus; Supraoptic nucleus (Iqbal, J. (89) 11)

Primary culture, conditioned medium; TRH, pyroglutamyl peptidase II (Charli, J.-L. (89) 155)

Marsupial; Development; Immunohistochemistry; Neuropeptide (Iqbal, J. (90) 1)

Hypoxemia
Preproenkephalin mRNA; Fetus; Hypothalamus; Paraventricular nucleus; Development; Glucocorticoid (Matthews, S.G. (86) 259)

Hypoxia
Microglia; Microtubule associated protein II; Immunomolecule; Neonatal; Brain damage; Ischemia (McRae, A. (84) 245)

Nuclear magnetic resonance spectroscopy; Creatine kinase; ATP; Brain; Development (Tsuji, M. (85) 192)

Hypoxic/ischemic
Encephalopathy; Immature; Microglia; Astrocyte; Immunocytochemistry (Ohno, M. (84) 294)

I

IFAPa-400
Neural development; Cell differentiation; Radial glia; EAP-300 polypeptide; Leucine-zipper (Kelly, M.M. (85) 31)

Immature
Hypoxic/ischemic; Encephalopathy; Microglia; Astrocyte; Immunocytochemistry (Ohno, M. (84) 294)

Immediate-early gene
Sensory deprivation; Olfactory system; Afferent influence (Klintsova, A.Y. (86) 114)

Fos; Ontogeny; Epigenetic signal; Spinal cord neuron; Mouse (Agoston, D.V. (89) 173)

Immunochemistry
Growth cone; Synaptosome; Saxitoxin; Sodium channel; Development; β2 subunit; Western blot (Wood, M.R. (88) 194)

Immunocytochemistry
Human CNS development; GAP-43; Monoamine (Milosevic, A. (84) 282)

Rat; Olfaction; Septal organ of Masera; Development (Giannetti, N. (84) 287)

Hypoxic/ischemic; Encephalopathy; Immature; Microglia; Astrocyte (Ohno, M. (84) 294)

Royal College of Surgeons dystrophic rat; Retinal degeneration mouse; Mullerian glia; Carbonic anhydrase-C; Cellular retinaldehyde-binding protein (Sheedlo, H.J. (85) 171)

Protein kinase C; Synaptogenesis; Spinal cord; Rat embryo; Postnatal rat (Miki, A. (87) 46)

Serotonin; Enucleation; Electron microscopy (Arce, E.A. (90) 168)

Immunofluorescence
S100; Glia; Ensheathing cell; LHRH neuron; Olfactory bulb; Development; Cell migration (Cummings, D.M. (88) 148)

Immunohistochemistry
Estrogen receptor; Cerebral cortex; Development; Auditory cortex; Acetylcholinesterase (Yokosuka, M. (84) 99)

Monodelphis; Marsupial; Hypothalamus; Development; Bromodeoxyuridine (Iqbal, J. (85) 151)

Heat shock protein; Development (Kato, M. (86) 180)

Calcium; Odor stimulation; Calcium-binding protein (Bastianelli, E. (87) 224)

γ-Aminobutyric acid; Receptor subunit; Neuron culture; Microtubule-associated protein 2; Synapse (Gao, B. (88) 1)

Fatty acid-binding protein; Neurite formation; Synapse maturation; Mouse (Sellner, P.A. (89) 33)

Cichlid retina; Histogenesis; Development; PCNA; GFAP; Rhodopsin; Visinin; GnRH; TH; 5-HT; γ-Aminobutyric acid; SP; NPY (Negishi, K. (89) 87)

Nitric oxide synthase; Endothelium; Human cerebrum; Brain development (Miyawaki, T. (89) 161)

Gonadotropin-releasing hormone; Brain; Ontogenesis; Frog (D'Aniello, B. (89) 281)

Marsupial; Development; Hypothalamus; Neuropeptide (Iqbal, J. (90) 1)

Immunomolecule
Microglia; Microtubule associated protein II; Neonatal; Brain damage; Ischemia; Hypoxia (McRae, A. (84) 245)

Infant
Corticotropin-releasing factor; Rat; Ultrasonic vocalization; Maternal separation (Harvey, A.T. (87) 125)

Infant brain
N-Methyl-D-aspartate receptor; [^{3}H]MK801 binding; Postmortem; Development; Neonate (Andersen, D.L. (88) 178)

Inferior colliculus
Topographic map; Auditory system; Directional hearing; Development; Dark-rearing; Auditory deprivation (Binns, K.E. (85) 14)

Infraorbital nerve
Rat; Barrel; Somatosensory cortex; Histochemistry (Chiaia, N.L. (84) 271)

Ingestion
Cocaine; Fetal; Swallowing; Sheep; Behavior; Ovine (Ross, M.G. (87) 120)

Inorganic mercury
Amalgam; NGF; Trk tyrosine kinase receptor; Choline acetyltransferase; p75 low-affinity NGF receptor; Brain lesion (Söderström, S. (85) 96)

Inositol 1,4,5-trisphosphate
Development; Protein kinase C; Cortex; Hippocampus (Jia, W.W.-G. (85) 109)

Inositol-trisphosphate
Kainic acid; Status epilepticus; Seizure-induced brain damage; Excitatory amino acid (Carmant, L. (89) 67)

In situ hybridization
Growth factor; Central auditory system; Ontogeny (Luo, L. (86) 24)

Programmed cell death; Death-associated mRNA; Fragmented DNA; *Weaver* mouse; Granular neuron (Owens, G.P. (86) 35)

$GABA_A$ receptor; Weaver mice; Cerebellar development; Purkinje neuron; Cerebellum; Mutant mouse (Beattie, C.E. (88) 171)

Insulin
Insulin-like growth factor; Myelination; Demyelination; Remyelination; Nerve tissue; Experimental allergic encephalomyelitis (Roth, G.A. (88) 102)

Insulin-like growth factor
Truncated insulin-like growth factor-1; Olfactory bulb; Intraocular transplantation; Non-linear mixed-effects models (Giacobini, M.M.J. (84) 67)

Insulin; Myelination; Demyelination; Remyelination; Nerve tissue; Experimental allergic encephalomyelitis (Roth, G.A. (88) 102)

Intermediate filament
Central nervous system; Differentiation; Radial glial cell; mRNA localization (Dahlstrand, J. (84) 109)

Interneuron
Corticospinal tract; Cervical spinal cord; c-*fos*; Postnatal maturation; Transient connection; Rat (Curfs, M.H.J.M. (87) 214)

Intracellular filling
Hippocampal formation; Fascia dentata; Granule cell; Axon; Neuron development; Neurobiotin (Yan, W. (90) 194)

Intraocular graft
Brain-derived neurotrophic factor; Dopamine receptor; Substantia nigra; Striatum; Transplant; trkB; Dopamine (Strömberg, I. (84) 215)

Intraocular transplantation
Insulin-like growth factor; Truncated insulin-like growth factor-1; Olfactory bulb; Non-linear mixed-effects models (Giacobini, M.M.J. (84) 67)

Intraventricular hemorrhage
Preterm; Germinal matrix; Microvasculature (Ment, L.R. (84) 142)

Intrinsic bursting
Epileptogenesis; Development; Neocortex; 4-Aminopyridine; Patch clamp; Current source-density analysis (Hoffman, S.N. (85) 64)

Intrinsic electrophysiological property
Nucleus of solitary tract; Gustatory; Development; Brainstem slice; Dendrite; Whole cell recording (Bao, H. (86) 143)

In vitro
Tau; Neuritogenesis; mRNA; Protein distribution; Cerebellum; Cytoskeleton; Microtubule-associated protein (Przyborski, S.A. (87) 29)

MAP2; Microtubule-associated protein; Neuritogenesis; Cerebellum; mRNA; Protein distribution (Przyborski, S.A. (89) 187)

Ionic conductance
Organotypic culture; Development; Embryonic motoneuron; Hypoglossal motoneuron; Facial motoneuron; Ocular motoneuron; Calcium potential (Eustache, I. (86) 187)

Ipsilateral projection
Synapse elimination; Cerebellum; Purkinje cell; Climbing fiber; X-irradiation; Vibrissae (Fuhrman, Y. (87) 172)

Iris
α Adrenoceptor; Sympathetic neurone; Reverse transcription-polymerase chain reaction; Development; Aging (Vidovic, M. (89) 309)

Iron
Central nervous system; Development; Endothelium; Choroid plexus; Macrophage; Microglia; Histochemistry; Rat (Moos, T. (87) 203)

γ-Irradiation
Static culture; Biocytin tracing; Electron microscopy; Synaptogenesis (Gaiarsa, J.-L. (86) 250)

Ischemia
Microglia; Microtubule associated protein II; Immunomolecule; Neonatal; Brain damage; Hypoxia (McRae, A. (84) 245)

Isoform
Protein kinase C; Zeta; Development (Hunter, S.E. (85) 239)

Isozyme
6-Phosphofructo-1-kinase; Development; Brain; Energy metabolism; Metabolic regulation; Protein synthesis; mRNA; Western blotting; Northern analysis (Mhaskar, Y. (85) 54)

K

Kainate receptor
Brain; Development; GluR5; RNA editing (Paschen, W. (86) 359)

Kainic acid
Status epilepticus; Inositol-trisphosphate; Seizure-induced brain damage; Excitatory amino acid (Carmant, L. (89) 67)

Keratan sulphate
Microglia; Macrophage; Multiple sclerosis; Proteoglycan; Development (Bertolotto, A. (86) 233)

Ketamine
N-Methyl-D-aspartate; Conditioned taste aversion; Fetus; Sodium pentobarbital; Anesthesia; Learning; Development; Neural plasticity (Mickley, G.A. (85) 119)

Kinase inhibitor
Cell migration; Granule cell; Reaggregation culture, K252a; Microfilament (Kobayashi, S. (90) 122)

Kinetic properties
Na^+ current; Development; mRNA; Tetrodotoxin (Virginio, C. (87) 153)

Krox-24
Gene expression; Visual development; Plasticity; Proto-oncogene; Zif-268 (Kaplan, I.V. (90) 174)

L

Lamella
Growth cone; Cyclic remodelling; Target tissue; Axon guidance; Motility (Gallo, G. (85) 140)

Lead-exposure
SDHACU; [^{3}H]HC-3 binding; ChAT; Hippocampus; Developmental rat; Septal lesion; Septal cell count (Tian, X. (86) 268)

Learning
N-Methyl-D-aspartate; Ketamine; Conditioned taste aversion; Fetus; Sodium pentobarbital; Anesthesia; Development; Neural plasticity (Mickley, G.A. (85) 119)

Norepinephrine; Microdialysis; Olfaction; Tactile stimulation; Development; Olfactory bulb (Rangel, S. (85) 187)

Leucine-zipper
Neural development; Cell differentiation; Radial glia; EAP-300 polypeptide; IFAPa-400 (Kelly, M.M. (85) 31)

Leukemia inhibitory factor
c-*kit* receptor; Dorsal root ganglion; Stem cell factor; Nerve growth factor; Substance P; Growth cone; Mouse (Hirata, T. (85) 201)

Astrocyte progenitor cell; Differentiation (Nakagaito, Y. (87) 220)

Leupeptin
Partial denervation; EDL; Motor unit (Tyč, F. (88) 186)

Levator ani
Synapse elimination; Neuromuscular; Androgen; Sexual differentiation; Synaptic development (Jordan, C.L. (84) 225)

LH
Puberty; Taurine; LHRH; HPLC; γ-Aminobutyric acid; Amino acid neurotransmitter (Arias, P. (85) 137)

LHRH
Puberty; Taurine; LH; HPLC; γ-Aminobutyric acid; Amino acid neurotransmitter (Arias, P. (85) 137)

LHRH neuron
S100; Glia; Ensheathing cell; Olfactory bulb; Development; Cell migration; Immunofluorescence (Cummings, D.M. (88) 148)

Light
Biological clock; SCN; Circadian rhythm; c-*fos*; SIDS (Clegg, D.A. (84) 46)

Light-deprivation
Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin-3; *trk*; Rat; Visual (Schoups, A.A. (86) 326)

Liver, development of adrenergic signaling
Adenylate cyclase, developmental effects of 6-hydroxydopamine; Adrenergic receptor, developmental effects of 6-hydroxydopamine; Cyclic AMP, developmental effects of 6-hydroxydopamine; Heart, development of adrenergic signaling; 6-Hydroxydopamine, effects on adrenergic development (Slotkin, T.A. (88) 17)

Lurcher
Mutant mouse; Cerebellum; Equilibrium; Motor learning (Caston, J. (86) 311)

Luteinizing hormone
Sexual differentiation; Female sexual behavior; Postnatal period (Diaz, D.R. (86) 227)

M

Macaca
Plasticity; Deafferentation; Cuneate nucleus; Brainstem; Rhesus (Jain, N. (90) 24)

Macrophage
Microglia; Keratan sulphate; Multiple sclerosis; Proteoglycan; Development (Bertolotto, A. (86) 233)

Central nervous system; Development; Iron; Endothelium; Choroid plexus; Microglia; Histochemistry; Rat (Moos, T. (87) 203)

Male rat
Vasopressin; Suprachiasmatic nucleus; Sexual behavior; Sexual partner preference; Hypothalamus; Aromatase blocker (Swaab, D.F. (85) 273)

Mannitol
Blood–brain barrier; Permeability; Blood flow; Rat; Glycine; Neonate; Development (Preston, J.E. (87) 69)

Aspartate; Glutamate; Blood–brain barrier; *N*-Methyl-D-aspartate; Blood–cerebrospinal fluid barrier (Al-Sarraf, H. (90) 151)

MAP2
Microtubule-associated protein; Neuritogenesis; In vitro; Cerebellum; mRNA; Protein distribution (Przyborski, S.A. (89) 187)

Marsupial
Monodelphis; Hypothalamus; Development; Bromodeoxyuridine; Immunohistochemistry (Iqbal, J. (85) 151)

Development; Hypothalamus; Immunohistochemistry; Neuropeptide (Iqbal, J. (90) 1)

Mash-1
bHLH protein; Retina; Neurogenesis; Photoreceptor; Opsin (Ahmad, I. (90) 184)

Maternal separation
Corticotropin-releasing factor; Rat; Infant; Ultrasonic vocalization (Harvey, A.T. (87) 125)

Mechanism
Cocaine; Development; Stimulant; Glucose metabolism; Fluoxetine; Dopamine; Serotonin; GBR12909 (Frick, G.S. (88) 158)

Medial hypothalamus
Obesity; Norepinephrine release; Food intake; Development (Jones, A.P. (88) 127)

Membrane rearrangement
GD_3 accessibility; Antibody binding inhibition; Neural differentiation (Allende, M.L. (90) 102)

Mesencephalon
Dopamine D-2 receptor; Dopamine synthesis; Tyrosine hydroxylase; High-performance liquid chromatography; Parkinson's disease (Van Muiswinkel, F.L. (85) 128)

Messenger RNA
Chicken; Pineal; Hydroxyindole-*O*-methyltransferase; Serum (Grechez-Cassiau, A. (88) 204)

Metabolic regulation
6-Phosphofructo-1-kinase; Development; Brain; Energy metabolism; Isozyme; Protein synthesis; mRNA; Western blotting; Northern analysis (Mhaskar, Y. (85) 54)

Metabolism
Cytochrome oxidase; Brainstem; Development; Perinatal; Adult; Birth; Sheep (Tai, T.-C. (86) 7)

Neurotoxicity; Barrel cortex; Vibrissae stimulation (Wu, C.-C. (87) 62)

Metabotropic receptor
Vibrissa; *N*-Methyl-D-aspartate; QUIS receptor; Non-NMDA receptor; Development; Autoradiography; Cerebral cortex (Blue, M.E. (84) 11)

Metalloproteinase
Brain development; Glial cell; Neuron; Plasminogen activator (Del Bigio, M.R. (86) 345)

Metamorphosis
NADPH-diaphorase; Nitric oxide synthase; Spinal cord; Frog (Crowe, M.J. (86) 155)

Met-enkephalin immunoreactivity
Development; Proenkephalin in situ hybridization; Hypothalamoseptal tract; Guinea pig (Mitchell, V. (86) 67)

Methionine-enkephalin
Cocaine; β-Endorphin; Dynorphin A; Dynorphin B; Brainstem; Swine; Newborn (Zhang, C. (87) 188)

***N*-Methyl-D-aspartate**
Vibrissa; QUIS receptor; Non-NMDA receptor; Metabotropic receptor; Development; Autoradiography; Cerebral cortex (Blue, M.E. (84) 11)

Ketamine; Conditioned taste aversion; Fetus; Sodium pentobarbital; Anesthesia; Learning; Development; Neural plasticity (Mickley, G.A. (85) 119)

Mitochondria; Excitoxicity; Glutamate; Development (Maragos, W.F. (88) 117)

Urea cycle; Quinolinic acid; Excitotoxicity; Ornithine carbamoyltransferase deficiency; Animal model; *Sparse fur* mouse (Robinson, M.B. (90) 35)

Aspartate; Glutamate; Blood–brain barrier; Mannitol; Blood–cerebrospinal fluid barrier (Al-Sarraf, H. (90) 151)

***N*-Methyl-D-aspartate antagonist**
Development; σ Binding site; Psychosis; Epilepsy; Schizophrenia (Sircar, R. (88) 224)

***N*-Methyl-D-aspartate receptor**
MK-801; Spinal cord; Developmental plasticity; Critical period; Recovery of function (Maier, D.L. (87) 135)

[^{3}H]MK801 binding; Infant brain; Postmortem; Development; Neonate (Andersen, D.L. (88) 178)

Methylxanthine
Caffeine; Seizure; Adenosine receptor; Chemoconvulsant; Ontogeny (Guillet, R. (89) 124)

Microdialysis
Norepinephrine; Olfaction; Learning; Tactile stimulation; Development; Olfactory bulb (Rangel, S. (85) 187)

Microencephaly
Cocaine; Developmental neurotoxicity; Phosphoinositide metabolism (Tan, X.X. (84) 179)

Microfilament
Cell migration; Granule cell; Reaggregation culture, K252a; Kinase inhibitor (Kobayashi, S. (90) 122)

Microglia
Microtubule associated protein II; Immunomolecule; Neonatal; Brain damage; Ischemia; Hypoxia (McRae, A. (84) 245)

Hypoxic/ischemic; Encephalopathy; Immature; Astrocyte; Immunocytochemistry (Ohno, M. (84) 294)

Macrophage; Keratan sulphate; Multiple sclerosis; Proteoglycan; Development (Bertolotto, A. (86) 233)

Central nervous system; Development; Iron; Endothelium; Choroid plexus; Macrophage; Histochemistry; Rat (Moos, T. (87) 203)

Microtubule-associated protein
Tau; Neuritogenesis; mRNA; Protein distribution; Cerebellum; In vitro; Cytoskeleton (Przyborski, S.A. (87) 29)

Axonal growth cone; Proline-dependent protein kinase; Microtubule stability; Neuronal differentiation; Cerebellar granule neuron (Rocha, M.G. (89) 47)

MAP2; Neuritogenesis; In vitro; Cerebellum; mRNA; Protein distribution (Przyborski, S.A. (89) 187)

Cytoskeleton; Dephosphorylation (Dudek, S.M. (90) 54)

Microtubule-associated protein 2
γ-Aminobutyric acid; Receptor subunit; Neuron culture; Synapse; Immunohistochemistry (Gao, B. (88) 1)

Microtubule associated protein II
Microglia; Immunomolecule; Neonatal; Brain damage; Ischemia; Hypoxia (McRae, A. (84) 245)

Microtubule stability
Axonal growth cone; Microtubule-associated protein; Proline-dependent protein kinase; Neuronal differentiation; Cerebellar granule neuron (Rocha, M.G. (89) 47)

Microvasculature
Intraventricular hemorrhage; Preterm; Germinal matrix (Ment, L.R. (84) 142)

Midkine
Cerebral infarct; Neurotrophic factor; Astrocyte; Repair of brain tissue (Yoshida, Y. (85) 25)

Migration
Substantia nigra; Dopamine neuron; Tyrosine hydroxylase; Ontogenesis; Radial glia; Tenascin; DiI (Kawano, H. (86) 101)

Mitochondria
N-Methyl-D-aspartate; Excitoxicity; Glutamate; Development (Maragos, W.F. (88) 117)

Mitral cell
Olfactory bulb; Postnatal development; Granule cell; Gap junction; Neuronal-coupling; Connexin 43 (Paternostro, M.A. (84) 1)

MK-801
Hyperthermia; Rat; Glutamate; NMDA receptor; Seizure; Epilepsy (Morimoto, T. (84) 204)

N-Methyl-D-aspartate receptor; Spinal cord; Developmental plasticity; Critical period; Recovery of function (Maier, D.L. (87) 135)

MMP-9 mRNA
Gelatinase activity; Neurogenesis; Extracellular matrix; Hybridization, in situ; Brain vascularization (Cañete Soler, R. (88) 37)

Monoamine
Human CNS development; GAP-43; Immunocytochemistry (Milosevic, A. (84) 282)

Monodelphis
Marsupial; Hypothalamus; Development; Bromodeoxyuridine; Immunohistochemistry (Iqbal, J. (85) 151)

Monodelphis
Morphogenesis; Development; Hypothalamus; Paraventricular nucleus; Supraoptic nucleus (Iqbal, J. (89) 11)

Morphine
DAMGO; Morphine-6-glucuronide; Morphine-3-glucuronide; Receptor binding; Mu opioid receptor; Neonate; Guinea pig (Murphey, L.J. (85) 146)

Morphine-3-glucuronide
DAMGO; Morphine; Morphine-6-glucuronide; Receptor binding; Mu opioid receptor; Neonate; Guinea pig (Murphey, L.J. (85) 146)

Morphine-6-glucuronide
DAMGO; Morphine; Morphine-3-glucuronide; Receptor binding; Mu opioid receptor; Neonate; Guinea pig (Murphey, L.J. (85) 146)

Morphogenesis
Monodelphis; Development; Hypothalamus; Paraventricular nucleus; Supraoptic nucleus (Iqbal, J. (89) 11)

Morphometry
Motoneurone; Motoneurone–muscle interaction; Postnatal development; Neuromuscular activity (Kerai, B. (85) 89)

Motility
Growth cone; Lamella; Cyclic remodelling; Target tissue; Axon guidance (Gallo, G. (85) 140)

Motoneuron
Apoptosis; Chick embryo; Cellular calcium; Spinal cord; Development (Ciutat, D. (86) 167)

Motoneurone
Motoneurone–muscle interaction; Postnatal development; Neuromuscular activity; Morphometry (Kerai, B. (85) 89)

Motoneurone–muscle interaction
Motoneurone; Postnatal development; Neuromuscular activity; Morphometry (Kerai, B. (85) 89)

Motoneuron regeneration
Neuromuscular reinnervation; Synaptic plasticity; Crayfish; Uropod (Lee, H.-J. (87) 179)

Motor learning
Lurcher; Mutant mouse; Cerebellum; Equilibrium (Caston, J. (86) 311)

Motor unit
Partial denervation; Leupeptin; EDL (Tyč, F. (88) 186)

Mouse
c-*kit* receptor; Dorsal root ganglion; Stem cell factor; Nerve growth factor; Leukemia inhibitory factor; Substance P; Growth cone (Hirata, T. (85) 201)

APEX mRNA; AP endonuclease; Repair enzyme; Redox factor; Hybridization, in situ; Brain; Development (Ono, Y. (86) 1)

Astrocyte culture; β-Receptor; Cyclic AMP; Chick; Glycogenolysis; Noradrenaline (O'Dowd, B.S. (88) 220)

Fatty acid-binding protein; Immunohistochemistry; Neurite formation; Synapse maturation (Sellner, P.A. (89) 33)

Fos; Immediate-early gene; Ontogeny; Epigenetic signal; Spinal cord neuron (Agoston, D.V. (89) 173)

Righting reflex; Bar holding; SNAP-25; ADHD; Synaptic protein; Neurotransmitter release; Synaptogenesis (Heyser, C.J. (89) 264)

Mouse brain
Muscarinic receptor; Phosphoinositide; Ethanol; Developmental neurotoxicity (Tan, X.X. (86) 348)

Müller cell
5′-Nucleotidase; Retina; Development; Ependyma (Braun, N. (88) 79)

Oligodendrocyte; Glial cell; Retina; Tissue culture; Myelin marker; O-antigen (Scherer, J. (89) 214)

Mullerian glia
Royal College of Surgeons dystrophic rat; Retinal degeneration mouse; Carbonic anhydrase-C; Cellular retinaldehyde-binding protein; Immunocytochemistry (Sheedlo, H.J. (85) 171)

Multiple sclerosis
Microglia; Macrophage; Keratan sulphate; Proteoglycan; Development (Bertolotto, A. (86) 233)

Mu opioid receptor
DAMGO; Morphine; Morphine-6-glucuronide; Morphine-3-glucuronide; Receptor binding; Neonate; Guinea pig (Murphey, L.J. (85) 146)

Muscarinic
PKC; Astrocyte; Glia; PLC; PLD; Chick embryo; TPA; Glutamate; Calcium; Tyrosine kinase (PTK) (Mangoura, D. (87) 12)

Muscarinic acetylcholine receptor
Central nervous system; Cortical development; Acetylcholinesterase (Buwalda, B. (84) 185)

Muscarinic binding
Nicotine binding; α-Bungarotoxin binding; Cerebellum; Human; Foetus; p75 nerve growth factor receptor; Choline acetyltransferase (Court, J.A. (90) 159)

Muscarinic receptor
Phosphoinositide; Cerebral cortex; Brainstem; Pirenzepine; AF-DX 116; 4-DAMP; *p*-F-HHSiD (Candura, S.M. (86) 134)

Phosphoinositide; Mouse brain; Ethanol; Developmental neurotoxicity (Tan, X.X. (86) 348)

Mutant mouse
Lurcher; Cerebellum; Equilibrium; Motor learning (Caston, J. (86) 311)

$GABA_A$ receptor; Weaver mice; In situ hybridization; Cerebellar development; Purkinje neuron; Cerebellum (Beattie, C.E. (88) 171)

Myelin
Spinal cord; Explant; Conduction block; Potassium channel; Synapse (Shrager, P. (88) 68)

Myelination
Insulin-like growth factor; Insulin; Demyelination; Remyelination; Nerve tissue; Experimental allergic encephalomyelitis (Roth, G.A. (88) 102)

Myelin marker
Oligodendrocyte; Glial cell; Retina; Müller cell; Tissue culture; O-antigen (Scherer, J. (89) 214)

N

***N*-Acetylpolyamine**
Polyamine; Degeneration; Seizure; Hippocampus; Piriform cortex; Developing rat brain (Hayashi, Y. (87) 96)

Na^+ current
Development; mRNA; Kinetic properties; Tetrodotoxin (Virginio, C. (87) 153)

NADPH-diaphorase
Nitric oxide synthase; Spinal cord; Frog; Metamorphosis (Crowe, M.J. (86) 155)

Development; Histochemistry; Central nervous system; Cat (Riche, D. (89) 139)

Near infrared spectroscopy
Neonatal brain cytochrome redox (Wickramasinghe, Y.A.B.D. (89) 307)

Neocortex
Epileptogenesis; Development; 4-Aminopyridine; Intrinsic bursting; Patch clamp; Current source-density analysis (Hoffman, S.N. (85) 64)

Fetal brain injury; Neuronal cell death; Brain development; Thalamus; Thalamic ventrobasal complex (Loopuijt, L.D. (85) 259)

Development; Protomap; Rat; Neurotransplantation; Corticostriate projection (Garnier, C. (89) 1)

Neonatal brain injury; Fetal brain injury; Neuronal cell death; Abnormal brain development; Thalamus (Jackson III, G.F. (90) 62)

Neonatal
Microglia; Microtubule associated protein II; Immunomolecule; Brain damage; Ischemia; Hypoxia (McRae, A. (84) 245)

Neonatal brain cytochrome redox
Near infrared spectroscopy (Wickramasinghe, Y.A.B.D. (89) 307)

Neonatal brain injury
Fetal brain injury; Neuronal cell death; Abnormal brain development; Thalamus; Neocortex (Jackson III, G.F. (90) 62)

Neonatal infection
Brain; Cerebellum; Development; Rat; Borna disease virus; Granule cell; Neuron; Virus (Bautista, J.R. (90) 45)

Neonate
DAMGO; Morphine; Morphine-6-glucuronide; Morphine-3-glucuronide; Receptor binding; Mu opioid receptor; Guinea pig (Murphey, L.J. (85) 146)

Blood–brain barrier; Permeability; Blood flow; Rat; Glycine; Mannitol; Development (Preston, J.E. (87) 69)

N-Methyl-D-aspartate receptor; [^{3}H]MK801 binding; Infant brain; Postmortem; Development (Andersen, D.L. (88) 178)

Nerve growth factor
c-*kit* receptor; Dorsal root ganglion; Stem cell factor; Leukemia inhibitory factor; Substance P; Growth cone; Mouse (Hirata, T. (85) 201)

Programmed cell death; Depolarization; Neurotrophin; Fos (Kubo, T. (85) 249)

Neuronal differentiation; Cyclic AMP; Protein phosphorylation; Neurite; Tyrosine kinase (Wu, C.-f. (86) 217)

Brain-derived neurotrophic factor; Neurotrophin-3; *trk*; Rat; Visual; Light-deprivation (Schoups, A.A. (86) 326)

G-protein; PC12 cell; Neuronal development (Andreopoulos, S. (88) 30)

Neuropeptide; DRG; Adult neuronal culture; Aging (Jiang, Z.-G. (90) 190)

Nerve tissue
Insulin-like growth factor; Insulin; Myelination; Demyelination; Remyelination; Experimental allergic encephalomyelitis (Roth, G.A. (88) 102)

Neural cell adhesion molecule
Olfactory keratin-positive basal cell; Transforming growth factor-β; Calcium (Satoh, M. (87) 111)

Neural crest
Tenascin; Axon outgrowth; Peripheral nervous system development; Somite (Yip, J.W. (86) 297)

Neural development
Cell differentiation; Radial glia; EAP-300 polypeptide; IFAPa-400; Leucine-zipper (Kelly, M.M. (85) 31)

Neural differentiation
GD_3 accessibility; Antibody binding inhibition; Membrane rearrangement (Allende, M.L. (90) 102)

Neural plasticity
N-Methyl-D-aspartate; Ketamine; Conditioned taste aversion; Fetus; Sodium pentobarbital; Anesthesia; Learning; Development (Mickley, G.A. (85) 119)

Albinism; Corpus callosum; Binocular vision; Eye alignment; Subplate cell (Grant, S. (88) 132)

Neurite
Neuronal differentiation; Cyclic AMP; Nerve growth factor; Protein phosphorylation; Tyrosine kinase (Wu, C.-f. (86) 217)

Neuroepithelium; Olfactory bulb; Synaptogenesis; Amyloid (Clarris, H.J. (88) 87)

Neurite extension
Cerebellar granule cell; Central nervous system development; Neurofilament; Neurofilament mRNA; Neurotrophic factor; Somatostatin (Taniwaki, T. (88) 109)

Neurite formation
Fatty acid-binding protein; Immunohistochemistry; Synapse maturation; Mouse (Sellner, P.A. (89) 33)

Neurite initiation
Thapsigargin; Calcium; Dorsal root ganglion; Culture; Rat (Lankford, K.L. (84) 151)

Neurite outgrowth
Vascular endothelial cell; Adhesion molecule; Vitronectin; Heparan sulfate proteoglycan (Isahara, K. (84) 164)

GAP-43; Neuronal maturation; Growth cone; Adhesion; Neuronal surface protease; Thrombin; Hirudin (Shea, T.B. (87) 87)

Wistar rat; Ventral mesencephalon (Holmes, C. (88) 212)

Acetylated microtubule; Growth cone (Hadley, R.D. (89) 129)

Neuritogenesis
DRG neuron; Aging; NGF; Neuron culture (Jiang, Z.-G. (85) 212)

Tau; mRNA; Protein distribution; Cerebellum; In vitro; Cytoskeleton; Microtubule-associated protein (Przyborski, S.A. (87) 29)

MAP2; Microtubule-associated protein; In vitro; Cerebellum; mRNA; Protein distribution (Przyborski, S.A. (89) 187)

Neurobiotin
Hippocampal formation; Fascia dentata; Granule cell; Axon; Neuron development; Intracellular filling (Yan, W. (90) 194)

Neuroepithelium
Olfactory bulb; Synaptogenesis; Neurite; Amyloid (Clarris, H.J. (88) 87)

Neurofilament
Cerebellar granule cell; Central nervous system development; Neurite extension; Neurofilament mRNA; Neurotrophic factor; Somatostatin (Taniwaki, T. (88) 109)

Neurofilament mRNA
Cerebellar granule cell; Central nervous system development; Neurite extension; Neurofilament; Neurotrophic factor; Somatostatin (Taniwaki, T. (88) 109)

Neurofilament protein
Flow cytometry; Glutamic acid decarboxylase; Human neuron (Rozental, R. (85) 161)

Neurogenesis
Epidermal growth factor; Subventricular zone; Gliogenesis; Stem cell; Progenitor (Weickert, C.S. (86) 203)

MMP-9 mRNA; Gelatinase activity; Extracellular matrix; Hybridization, in situ; Brain vascularization (Cañete Soler, R. (88) 37)

Plasma membrane redox; Cellular activation; Cytotoxicity; Brain development (Yong, Y. (89) 253)

Mash-1; bHLH protein; Retina; Photoreceptor; Opsin (Ahmad, I. (90) 184)

Neuromuscular
Synapse elimination; Androgen; Levator ani; Sexual differentiation; Synaptic development (Jordan, C.L. (84) 225)

Neuromuscular activity
Motoneurone; Motoneurone–muscle interaction; Postnatal development; Morphometry (Kerai, B. (85) 89)

Neuromuscular reinnervation
Motoneuron regeneration; Synaptic plasticity; Crayfish; Uropod (Lee, H.-J. (87) 179)

Neuron
Fetal alcohol syndrome; Alcohol-related birth defect; Alcohol; Cell differentiation; N-myc; c-myc; Growth-associated protein 43; B50; Cell, cultured (Saunders, D.E. (86) 16)

Brain development; Glial cell; Metalloproteinase; Plasminogen activator (Del Bigio, M.R. (86) 345)

Endothelin; ET_A receptor; ET_B receptor; Granule cell; Cerebellum (Lysko, P.G. (88) 96)

Brain; Cerebellum; Development; Rat; Borna disease virus; Neonatal infection; Granule cell; Virus (Bautista, J.R. (90) 45)

Neuronal cell death
Fetal brain injury; Brain development; Thalamus; Neocortex; Thalamic ventrobasal complex (Loopuijt, L.D. (85) 259)

Neonatal brain injury; Fetal brain injury; Abnormal brain development; Thalamus; Neocortex (Jackson III, G.F. (90) 62)

Neuronal-coupling
Olfactory bulb; Postnatal development; Mitral cell; Granule cell; Gap junction; Connexin 43 (Paternostro, M.A. (84) 1)

Neuronal culture
Ethanol; γ-Aminobutyric acid; Cholinergic neuron; GABAergic neuron (Spoerri, P.E. (86) 94)

Neuronal death
Chondroitin sulfate proteoglycan; Superior colliculus; Electron microscopy; Horseradish peroxidase; Development (Huxlin, K.R. (84) 77)

Neuronal development
G-protein; PC12 cell; Nerve growth factor (Andreopoulos, S. (88) 30)

Neuronal differentiation
Precursor cell; Embryonal carcinoma; Electrophysiology; Development; Transplant (Magnuson, D.S.K. (84) 130)

Cyclic AMP; Nerve growth factor; Protein phosphorylation; Neurite; Tyrosine kinase (Wu, C.-f. (86) 217)

Axonal growth cone; Microtubule-associated protein; Proline-dependent protein kinase; Microtubule stability; Cerebellar granule neuron (Rocha, M.G. (89) 47)

Neuronal growth cone
GTP-binding protein; G_o; Axonal growth; PC12 cell; Protein kinase C (Xie, R. (87) 77)

Neuronal maturation
GAP-43; Neurite outgrowth; Growth cone; Adhesion; Neuronal surface protease; Thrombin; Hirudin (Shea, T.B. (87) 87)

Neuronal plasticity
Serotonin; Regeneration; Reactive astrocyte; S-100; Glia; Neurotrophic factor (Zhou, F.C. (84) 89)

Neuronal surface protease
GAP-43; Neurite outgrowth; Neuronal maturation; Growth cone; Adhesion; Thrombin; Hirudin (Shea, T.B. (87) 87)

Neuronal survival
Sexual differentiation; Estrogen; Zebra finch; Higher vocal center; Birdsong (Burek, M.J. (85) 220)

Neuron culture
DRG neuron; Neuritogenesis; Aging; NGF (Jiang, Z.-G. (85) 212)

γ-Aminobutyric acid; Receptor subunit; Microtubule-associated protein 2; Synapse; Immunohistochemistry (Gao, B. (88) 1)

Neuron development
Hippocampal formation; Fascia dentata; Granule cell; Axon; Neurobiotin; Intracellular filling (Yan, W. (90) 194)

Neuropeptide
Marsupial; Development; Hypothalamus; Immunohistochemistry (Iqbal, J. (90) 1)

DRG; Nerve growth factor; Adult neuronal culture; Aging (Jiang, Z.-G. (90) 190)

Neuropeptide Y
Retino-hypothalamic projection; Suprachiasmatic nucleus; Development; Cholera toxin; Substance P; Serotonin; Rat (Takatsuji, K. (84) 261)

Chromaffin cell; Neurotrophic factor; Enkephalin; Somatostatin; Catecholamine; Plasticity (Ramírez-Ordóñez, R. (87) 160)

Neuroplasticity
Sprouting; Visual cortex; Superior colliculus (Adelson, P.D. (86) 81)

Neuroprotection
Fetal alcohol syndrome; Ethanol; Ethanol neurotoxicity; Neurotrophic factor; NGF; bFGF; Septohippocampal system (Heaton, M.B. (85) 1)

Neurotoxicity
Metabolism; Barrel cortex; Vibrissae stimulation (Wu, C.-C. (87) 62)

Neurotransmitter
Plasma membrane redox; Cellular activation; Cytotoxicity (Yong, Y. (89) 235)

Neurotransmitter release
Mouse; Righting reflex; Bar holding; SNAP-25; ADHD; Synaptic protein; Synaptogenesis (Heyser, C.J. (89) 264)

Neurotransplantation
Development; Neocortex; Protomap; Rat; Corticostriate projection (Garnier, C. (89) 1)

Neurotrophic factor
Serotonin; Regeneration; Neuronal plasticity; Reactive astrocyte; S-100; Glia (Zhou, F.C. (84) 89)

Fetal alcohol syndrome; Ethanol; Ethanol neurotoxicity; NGF; bFGF; Neuroprotection; Septohippocampal system (Heaton, M.B. (85) 1)

Midkine; Cerebral infarct; Astrocyte; Repair of brain tissue (Yoshida, Y. (85) 25)

Chromaffin cell; Neuropeptide Y; Enkephalin; Somatostatin; Catecholamine; Plasticity (Ramírez-Ordóñez, R. (87) 160)

Cerebellar granule cell; Central nervous system development; Neurite extension; Neurofilament; Neurofilament mRNA; Somatostatin (Taniwaki, T. (88) 109)

Neurotrophin
Programmed cell death; Depolarization; Nerve growth factor; Fos (Kubo, T. (85) 249)

Striatal neuron; Cell culture; DARPP-32; Excitotoxicity; Huntington's disease; Platelet-derived growth factor (Nakao, N. (90) 92)

Neurotrophin-3
Nerve growth factor; Brain-derived neurotrophic factor; *trk*; Rat; Visual; Light-deprivation (Schoups, A.A. (86) 326)

Newborn
Cocaine; β-Endorphin; Methionine-enkephalin; Dynorphin A; Dynorphin B; Brainstem; Swine (Zhang, C. (87) 188)

NGF
Fetal alcohol syndrome; Ethanol; Ethanol neurotoxicity; Neurotrophic factor; bFGF; Neuroprotection; Septohippocampal system (Heaton, M.B. (85) 1)

Inorganic mercury; Amalgam; Trk tyrosine kinase receptor; Choline acetyltransferase; p75

low-affinity NGF receptor; Brain lesion (Söderström, S. (85) 96)

DRG neuron; Neuritogenesis; Aging; Neuron culture (Jiang, Z.-G. (85) 212)

p75 low-affinity NGF receptor
Inorganic mercury; Amalgam; NGF; Trk tyrosine kinase receptor; Choline acetyltransferase; Brain lesion (Söderström, S. (85) 96)

Nicotine binding
α-Bungarotoxin binding; Muscarinic binding; Cerebellum; Human; Foetus; p75 nerve growth factor receptor; Choline acetyltransferase (Court, J.A. (90) 159)

Nigrostriatal system
Cytokine; Growth factor; Astroglia; Parkinsonism (Von Coelln, R. (89) 150)

Nitric oxide
Rat; Pancreatic neuron; Enteric nervous system (Tharakan, T. (84) 26)

Glutamate; Proteoglycan; Signal transduction; Protein kinase C; Calcium-calmodulin type II kinase (Dow, K.E. (89) 320)

Nitric oxide synthase
NADPH-diaphorase; Spinal cord; Frog; Metamorphosis (Crowe, M.J. (86) 155)

Endothelium; Immunohistochemistry; Human cerebrum; Brain development (Miyawaki, T. (89) 161)

NMDA receptor
Hyperthermia; Rat; Glutamate; MK-801; Seizure; Epilepsy (Morimoto, T. (84) 204)

N-myc
Fetal alcohol syndrome; Alcohol-related birth defect; Alcohol; Neuron; Cell differentiation; c-myc; Growth-associated protein 43; B50; Cell, cultured (Saunders, D.E. (86) 16)

Non-linear mixed-effects models
Insulin-like growth factor; Truncated insulin-like growth factor-1; Olfactory bulb; Intraocular transplantation (Giacobini, M.M.J. (84) 67)

Non-NMDA receptor
Vibrissa; *N*-Methyl-D-aspartate; QUIS receptor; Metabotropic receptor; Development; Autoradiography; Cerebral cortex (Blue, M.E. (84) 11)

Noradrenaline
Astrocyte culture; β-Receptor; Cyclic AMP; Chick; Glycogenolysis; Mouse (O'Dowd, B.S. (88) 220)

Norepinephrine
Microdialysis; Olfaction; Learning; Tactile stimulation; Development; Olfactory bulb (Rangel, S. (85) 187)

Norepinephrine release
Obesity; Medial hypothalamus; Food intake; Development (Jones, A.P. (88) 127)

Norepinephrine turnover
Cocaine; Dopamine turnover (Seidler, F.J. (85) 48)

Northern analysis
6-Phosphofructo-1-kinase; Development; Brain; Energy metabolism; Metabolic regulation; Isozyme; Protein synthesis; mRNA; Western blotting (Mhaskar, Y. (85) 54)

NPY
Cichlid retina; Histogenesis; Development; PCNA; GFAP; Rhodopsin; Visinin; GnRH; TH; 5-HT; γ-Aminobutyric acid; SP; Immunohistochemistry (Negishi, K. (89) 87)

Nuclear magnetic resonance spectroscopy
Creatine kinase; ATP; Brain; Development; Hypoxia (Tsuji, M. (85) 192)

5'-Nucleotidase
Retina; Müller cell; Development; Ependyma (Braun, N. (88) 79)

Nucleus of solitary tract
Gustatory; Development; Intrinsic electrophysiological property; Brainstem slice; Dendrite; Whole cell recording (Bao, H. (86) 143)

O

O-antigen
Oligodendrocyte; Glial cell; Retina; Müller cell; Tissue culture; Myelin marker (Scherer, J. (89) 214)

Obesity
Medial hypothalamus; Norepinephrine release; Food intake; Development (Jones, A.P. (88) 127)

Ocular motoneuron
Organotypic culture; Development; Embryonic motoneuron; Hypoglossal motoneuron; Facial motoneuron; Ionic conductance; Calcium potential (Eustache, I. (86) 187)

Odor stimulation
Calcium; Calcium-binding protein; Immunohistochemistry (Bastianelli, E. (87) 224)

Olfaction
Rat; Septal organ of Masera; Development; Immunocytochemistry (Giannetti, N. (84) 287)

Norepinephrine; Microdialysis; Learning; Tactile stimulation; Development; Olfactory bulb (Rangel, S. (85) 187)

Olfactory bulb
Postnatal development; Mitral cell; Granule cell; Gap junction; Neuronal-coupling; Connexin 43 (Paternostro, M.A. (84) 1)

Insulin-like growth factor; Truncated insulin-like growth factor-1; Intraocular transplantation; Non-linear mixed-effects models (Giacobini, M.M.J. (84) 67)

Opioid peptide; Basal ganglia; Hippocampus (Casini, G. (84) 233)

Norepinephrine; Microdialysis; Olfaction; Learning; Tactile stimulation; Development (Rangel, S. (85) 187)

Neuroepithelium; Synaptogenesis; Neurite; Amyloid (Clarris, H.J. (88) 87)

S100; Glia; Ensheathing cell; LHRH neuron; Development; Cell migration; Immunofluorescence (Cummings, D.M. (88) 148)

Olfactory cortex
Excitotoxicity; Free radical; Xanthine dehydrogenase; Xanthine oxidase; Hippocampus (Battelli, M.G. (86) 340)

Olfactory keratin-positive basal cell
Neural cell adhesion molecule; Transforming growth factor-β; Calcium (Satoh, M. (87) 111)

Olfactory system
Immediate-early gene; Sensory deprivation; Afferent influence (Klintsova, A.Y. (86) 114)

Oligodendrocyte
Glial cell; Retina; Müller cell; Tissue culture; Myelin marker; O-antigen (Scherer, J. (89) 214)

Oncogene
Progenitor cell; Transplant; Ciliary neurotrophic factor; Cytoskeleton; Peripheral nerve (Doering, L.C. (89) 56)

Ontogenesis
Substantia nigra; Dopamine neuron; Tyrosine hydroxylase; Migration; Radial glia; Tenascin; DiI (Kawano, H. (86) 101)

Suprachiasmatic nucleus; Astrocyte; GFAP; Fos immunoreactivity; Retinohypothalamic tract (Lavialle, M. (86) 275)

Epileptiform activity; Rat; Hippocampus; Entorhinal cortex; Field potential (Gloveli, T. (87) 145)

Gonadotropin-releasing hormone; Immunohistochemistry; Brain; Frog (D'Aniello, B. (89) 281)

Ontogeny
Growth factor; Central auditory system; In situ hybridization (Luo, L. (86) 24)

Histamine H_1 receptor; Histamine H_3 receptor; 6-Hydroxydopamine; (*S*)α-Fluoromethylhistidine; Histamine; L-Histidine decarboxylase (Ryu, J.H. (87) 101)

Caffeine; Seizure; Adenosine receptor; Methylxanthine; Chemoconvulsant (Guillet, R. (89) 124)

Fos; Immediate-early gene; Epigenetic signal; Spinal cord neuron; Mouse (Agoston, D.V. (89) 173)

Opioid peptide
Basal ganglia; Hippocampus; Olfactory bulb (Casini, G. (84) 233)

Opsin
Mash-1; bHLH protein; Retina; Neurogenesis; Photoreceptor (Ahmad, I. (90) 184)

Optic tectum
Adhesion molecule; Phosphotyrosine; Retinal axon; Retina; Signalling (Stoker, A.W. (90) 129)

Organotypic culture
Development; Embryonic motoneuron; Hypoglossal motoneuron; Facial motoneuron; Oc-

ular motoneuron; Ionic conductance; Calcium potential (Eustache, I. (86) 187)

Dendritic spine; Domestic chick; Quantitative morphology (Hofmann, H. (86) 283)

Ornithine carbamoyltransferase deficiency
Urea cycle; Quinolinic acid; Excitotoxicity; *N*-Methyl-D-aspartate; Animal model; *Sparse fur* mouse (Robinson, M.B. (90) 35)

Ovine
Cocaine; Fetal; Swallowing; Sheep; Behavior; Ingestion (Ross, M.G. (87) 120)

P

Pancreatic neuron
Nitric oxide; Rat; Enteric nervous system (Tharakan, T. (84) 26)

Paraventricular nucleus
Preproenkephalin mRNA; Fetus; Hypothalamus; Development; Hypoxemia; Glucocorticoid (Matthews, S.G. (86) 259)

Monodelphis; Morphogenesis; Development; Hypothalamus; Supraoptic nucleus (Iqbal, J. (89) 11)

Parkinsonism
Nigrostriatal system; Cytokine; Growth factor; Astroglia (Von Coelln, R. (89) 150)

Parkinson's disease
Mesencephalon; Dopamine D-2 receptor; Dopamine synthesis; Tyrosine hydroxylase; High-performance liquid chromatography (Van Muiswinkel, F.L. (85) 128)

Animal model; Dopamine; Substantia nigra; Postnatal; Development; Cell death (Verney, C. (89) 115)

Partial denervation
Leupeptin; EDL; Motor unit (Tyč, F. (88) 186)

Patch clamp
Epileptogenesis; Development; Neocortex; 4-Aminopyridine; Intrinsic bursting; Current source-density analysis (Hoffman, S.N. (85) 64)

Patch-clamp
Embryonic cell; $GABA_A$-receptor; (−)Pentobarbital; Alphaxalone; Cl^--current (Valeyev, A.Y. (85) 280)

Pattern formation
Barreloid; Barrel; Thalamocortical relay cell (Brown, K.E. (86) 335)

PC12 cell
GTP-binding protein; G_o; Neuronal growth cone; Axonal growth; Protein kinase C (Xie, R. (87) 77)

G-protein; Neuronal development; Nerve growth factor (Andreopoulos, S. (88) 30)

PCNA
Cichlid retina; Histogenesis; Development; GFAP; Rhodopsin; Visinin; GnRH; TH; 5-HT; γ-Aminobutyric acid; SP; NPY; Immunohistochemistry (Negishi, K. (89) 87)

(−)Pentobarbital
Embryonic cell; Patch-clamp; $GABA_A$-receptor; Alphaxalone; Cl^--current (Valeyev, A.Y. (85) 280)

Perinatal
Cytochrome oxidase; Metabolism; Brainstem; Development; Adult; Birth; Sheep (Tai, T.-C. (86) 7)

Peripheral nerve
Progenitor cell; Transplant; Ciliary neurotrophic factor; Oncogene; Cytoskeleton (Doering, L.C. (89) 56)

Peripheral nervous system development
Tenascin; Axon outgrowth; Somite; Neural crest (Yip, J.W. (86) 297)

Peripheral-type benzodiazepine receptor
Astrocyte; Cerebral cortex; Development (Itzhak, Y. (84) 62)

Permeability
Blood–brain barrier; Blood flow; Rat; Glycine; Mannitol; Neonate; Development (Preston, J.E. (87) 69)

PGP9.5, neurone specific
Ubiquitin; Development; RNA in situ hybridization (Schofield, J.N. (85) 229)

6-Phosphofructo-1-kinase
Development; Brain; Energy metabolism; Metabolic regulation; Isozyme; Protein synthesis; mRNA; Western blotting; Northern analysis (Mhaskar, Y. (85) 54)

Phosphoinositide
Muscarinic receptor; Cerebral cortex; Brainstem; Pirenzepine; AF-DX 116; 4-DAMP; *p*-F-HHSiD (Candura, S.M. (86) 134)

Muscarinic receptor; Mouse brain; Ethanol; Developmental neurotoxicity (Tan, X.X. (86) 348)

Phosphoinositide metabolism
Cocaine; Microencephaly; Developmental neurotoxicity (Tan, X.X. (84) 179)

Phospholine iodide
Acetylcholinesterase; Axonal growth; Competition; Elvax; Thalamocortical (Ling, J.J. (86) 354)

Phosphotyrosine
Adhesion molecule; Retinal axon; Retina; Optic tectum; Signalling (Stoker, A.W. (90) 129)

Photoreceptor
Mash-1; bHLH protein; Retina; Neurogenesis; Opsin (Ahmad, I. (90) 184)

Pig
Co-localization; Dopamine-β-hydroxylase; Choline acetyl transferase; Superior cervical ganglion; Fetal; Adrenergic; Cholinergic (Wang, J.M. (90) 17)

Pineal
Chicken; Hydroxyindole-*O*-methyltransferase; Messenger RNA; Serum (Grechez-Cassiau, A. (88) 204)

Pirenzepine
Muscarinic receptor; Phosphoinositide; Cerebral cortex; Brainstem; AF-DX 116; 4-DAMP; *p*-F-HHSiD (Candura, S.M. (86) 134)

Piriform cortex
Polyamine; *N*-Acetylpolyamine; Degeneration; Seizure; Hippocampus; Developing rat brain (Hayashi, Y. (87) 96)

Pituitary
Baboon; Hypothalamus; Androgen receptor; Fetus; Pregnancy (Wu, S.S. (84) 278)

PKA
PKC; Glia; Astrocyte; Glutamine synthetase; Chick embryo; Cytoskeleton; Vimentin; Cell lineage; PLD; HB; Calyculin A (Mangoura, D. (87) 1)

PKC
Glia; Astrocyte; Glutamine synthetase; Chick embryo; Cytoskeleton; Vimentin; Cell lineage; PKA; PLD; HB; Calyculin A (Mangoura, D. (87) 1)

Astrocyte; Glia; PLC; PLD; Chick embryo; TPA; Glutamate; Muscarinic; Calcium; Tyrosine kinase (PTK) (Mangoura, D. (87) 12)

Plasma membrane redox
Cellular activation; Cytotoxicity; Neurotransmitter (Yong, Y. (89) 235)

Cellular activation; Cytotoxicity; Neurogenesis; Brain development (Yong, Y. (89) 253)

Plasminogen activator
Brain development; Glial cell; Metalloproteinase; Neuron (Del Bigio, M.R. (86) 345)

Plasticity
Chromaffin cell; Neurotrophic factor; Neuropeptide Y; Enkephalin; Somatostatin; Catecholamine (Ramírez-Ordóñez, R. (87) 160)

Deafferentation; Cuneate nucleus; Brainstem; Rhesus; *Macaca* (Jain, N. (90) 24)

Gene expression; Visual development; Protooncogene; Zif-268; Krox-24 (Kaplan, I.V. (90) 174)

Platelet-derived growth factor
Neurotrophin; Striatal neuron; Cell culture; DARPP-32; Excitotoxicity; Huntington's disease (Nakao, N. (90) 92)

PLC
PKC; Astrocyte; Glia; PLD; Chick embryo; TPA; Glutamate; Muscarinic; Calcium; Tyrosine kinase (PTK) (Mangoura, D. (87) 12)

PLD
PKC; Glia; Astrocyte; Glutamine synthetase; Chick embryo; Cytoskeleton; Vimentin; Cell lineage; PKA; HB; Calyculin A (Mangoura, D. (87) 1)

PKC; Astrocyte; Glia; PLC; Chick embryo; TPA; Glutamate; Muscarinic; Calcium; Tyrosine kinase (PTK) (Mangoura, D. (87) 12)

p75 nerve growth factor receptor
Nicotine binding; α-Bungarotoxin binding; Muscarinic binding; Cerebellum; Human; Foetus; Choline acetyltransferase (Court, J.A. (90) 159)

Polyamine
N-Acetylpolyamine; Degeneration; Seizure; Hippocampus; Piriform cortex; Developing rat brain (Hayashi, Y. (87) 96)

Polymerase chain-reaction
Dopamine D_4 receptor; mRNA; Brain; Development; Postnatal (Nair, V.D. (90) 180)

Posterior nucleus
Biotinylated dextran amine; Corticothalamic; Postnatal development; Thalamic reticular nucleus; Ventrobasal nucleus (Frassoni, C. (90) 111)

Postmortem
N-Methyl-D-aspartate receptor; [^{3}H]MK801 binding; Infant brain; Development; Neonate (Andersen, D.L. (88) 178)

Postnatal
Animal model; Dopamine; Substantia nigra; Parkinson's disease; Development; Cell death (Verney, C. (89) 115)

Dopamine D_4 receptor; mRNA; Brain; Development; Polymerase chain-reaction (Nair, V.D. (90) 180)

Postnatal development
Olfactory bulb; Mitral cell; Granule cell; Gap junction; Neuronal-coupling; Connexin 43 (Paternostro, M.A. (84) 1)

Motoneurone; Motoneurone–muscle interaction; Neuromuscular activity; Morphometry (Kerai, B. (85) 89)

Cochlea; GAP-43; Synaptophysin; Rat (Knipper, M. (89) 73)

Biotinylated dextran amine; Corticothalamic; Thalamic reticular nucleus; Ventrobasal nucleus; Posterior nucleus (Frassoni, C. (90) 111)

Postnatal maturation
Corticospinal tract; Cervical spinal cord; Interneuron; c-*fos*; Transient connection; Rat (Curfs, M.H.J.M. (87) 214)

Postnatal period
Sexual differentiation; Female sexual behavior; Luteinizing hormone (Diaz, D.R. (86) 227)

Postnatal rat
Protein kinase C; Immunocytochemistry; Synaptogenesis; Spinal cord; Rat embryo (Miki, A. (87) 46)

Potassium
Retina; Differentiation; HPC-1; Thy-1; Rhodopsin; Cell death (Araki, M. (89) 103)

Potassium channel
Myelin; Spinal cord; Explant; Conduction block; Synapse (Shrager, P. (88) 68)

Precursor cell
Embryonal carcinoma; Neuronal differentiation; Electrophysiology; Development; Transplant (Magnuson, D.S.K. (84) 130)

Embryonal carcinoma; Transmitter responsiveness (Magnuson, D.S.K. (90) 141)

Pregnancy
Baboon; Hypothalamus; Androgen receptor; Fetus; Pituitary (Wu, S.S. (84) 278)

Prenatal stress
Stress; Corticosterone; Adrenocorticotropin; Glucocorticoid receptors; Corticosterone binding globulin; Sex differences (McCormick, C.M. (84) 55)

Preoptic area
Sexual differentiation; Estrogen receptor mRNA; Development; Steroid hormone (DonCarlos, L.L. (84) 253)

Preproenkephalin mRNA
Fetus; Hypothalamus; Paraventricular nucleus; Development; Hypoxemia; Glucocorticoid (Matthews, S.G. (86) 259)

Preterm
Intraventricular hemorrhage; Germinal matrix; Microvasculature (Ment, L.R. (84) 142)

Primary culture, conditioned medium
Hypothalamus; TRH, pyroglutamyl peptidase II (Charli, J.-L. (89) 155)

Proenkephalin in situ hybridization
Development; Met-enkephalin immunoreactivity; Hypothalamoseptal tract; Guinea pig (Mitchell, V. (86) 67)

Progenitor
Epidermal growth factor; Subventricular zone; Gliogenesis; Neurogenesis; Stem cell (Weickert, C.S. (86) 203)

Progenitor cell
Transplant; Ciliary neurotrophic factor; Oncogene; Cytoskeleton; Peripheral nerve (Doering, L.C. (89) 56)

Progesterone
Diabetes (type II); C57BL/KsJ (*db/db*) mice; Regional brain norepinephrine; Estradiol; Blood glucose levels; Diabetes-obesity syndrome (Garris, D.R. (89) 314)

Programmed cell death
Depolarization; Neurotrophin; Nerve growth factor; Fos (Kubo, T. (85) 249)

Death-associated mRNA; Fragmented DNA; *Weaver* mouse; Granular neuron; In situ hybridization (Owens, G.P. (86) 35)

Proline-dependent protein kinase
Axonal growth cone; Microtubule-associated protein; Microtubule stability; Neuronal differentiation; Cerebellar granule neuron (Rocha, M.G. (89) 47)

Protein distribution
Tau; Neuritogenesis; mRNA; Cerebellum; In vitro; Cytoskeleton; Microtubule-associated protein (Przyborski, S.A. (87) 29)

MAP2; Microtubule-associated protein; Neuritogenesis; In vitro; Cerebellum; mRNA (Przyborski, S.A. (89) 187)

Protein kinase C
Development; Inositol 1,4,5-trisphosphate; Cortex; Hippocampus (Jia, W.W.-G. (85) 109)

Zeta; Development; Isoform (Hunter, S.E. (85) 239)

Immunocytochemistry; Synaptogenesis; Spinal cord; Rat embryo; Postnatal rat (Miki, A. (87) 46)

GTP-binding protein; G_o; Neuronal growth cone; Axonal growth; PC12 cell (Xie, R. (87) 77)

Glutamate; Proteoglycan; Signal transduction; Nitric oxide; Calcium-calmodulin type II kinase (Dow, K.E. (89) 320)

Protein phosphorylation
Calcium ion; Calcium channel; Astrocyte; Glial fibrillary acidic protein; Hippocampal slice (rat); Calcium/calmodulin-dependent protein kinase (Wofchuk, S.T. (85) 181)

Neuronal differentiation; Cyclic AMP; Nerve growth factor; Neurite; Tyrosine kinase (Wu, C.-f. (86) 217)

Protein synthesis
6-Phosphofructo-1-kinase; Development; Brain; Energy metabolism; Metabolic regulation; Isozyme; mRNA; Western blotting; Northern analysis (Mhaskar, Y. (85) 54)

Proteoglycan
Microglia; Macrophage; Keratan sulphate; Multiple sclerosis; Development (Bertolotto, A. (86) 233)

Glutamate; Signal transduction; Nitric oxide; Protein kinase C; Calcium-calmodulin type II kinase (Dow, K.E. (89) 320)

Protomap
Development; Neocortex; Rat; Neurotransplantation; Corticostriate projection (Garnier, C. (89) 1)

Proto-oncogene
Gene expression; Visual development; Plasticity; Zif-268; Krox-24 (Kaplan, I.V. (90) 174)

Pruning
Animal development; Dopamine; Receptor; Adolescence; Puberty (Teicher, M.H. (89) 167)

p19/stathmin
Growth-associated protein; GAP-43/B-50/F-1/pp46; SCG10; Hybridization, in situ; Rat brain; Brain ontogenesis; Developmental gene expression (Sugiura, Y. (90) 73)

Psychosis
Development; σ Binding site; *N*-Methyl-D-aspartate antagonist; Epilepsy; Schizophrenia (Sircar, R. (88) 224)

Puberty
Taurine; LH; LHRH; HPLC; γ-Aminobutyric acid; Amino acid neurotransmitter (Arias, P. (85) 137)

Animal development; Dopamine; Pruning; Receptor; Adolescence (Teicher, M.H. (89) 167)

Purkinje cell
Synapse elimination; Ipsilateral projection; Cerebellum; Climbing fiber; X-irradiation; Vibrissae (Fuhrman, Y. (87) 172)

Purkinje neuron
$GABA_A$ receptor; Weaver mice; In situ hybridization; Cerebellar development; Cerebellum; Mutant mouse (Beattie, C.E. (88) 171)

Pyramidal tract
Visual cortex; Thyroid hormone; Collateral elimination; Transient projection (Li, C.-P. (89) 227)

Q

Quantitative morphology
Organotypic culture; Dendritic spine; Domestic chick (Hofmann, H. (86) 283)

Quinolinic acid
Urea cycle; Excitotoxicity; *N*-Methyl-D-aspartate; Ornithine carbamoyltransferase deficiency; Animal model; *Sparse fur* mouse (Robinson, M.B. (90) 35)

QUIS receptor
Vibrissa; *N*-Methyl-D-aspartate; Non-NMDA receptor; Metabotropic receptor; Development; Autoradiography; Cerebral cortex (Blue, M.E. (84) 11)

R

Radial glia
Neural development; Cell differentiation; EAP-300 polypeptide; IFAPa-400; Leucine-zipper (Kelly, M.M. (85) 31)

Astrocyte; Vasoactive intestinal peptide; Suprachiasmatic nucleus; Circadian rhythm; Vimentin; Glial fibrillary acidic protein; Development (Botchkina, G.I. (86) 48)

Substantia nigra; Dopamine neuron; Tyrosine hydroxylase; Ontogenesis; Migration; Tenascin; DiI (Kawano, H. (86) 101)

Radial glial cell
Intermediate filament; Central nervous system; Differentiation; mRNA localization (Dahlstrand, J. (84) 109)

Rat
Nitric oxide; Pancreatic neuron; Enteric nervous system (Tharakan, T. (84) 26)

Neurite initiation; Thapsigargin; Calcium; Dorsal root ganglion; Culture (Lankford, K.L. (84) 151)

Hyperthermia; Glutamate; NMDA receptor; MK-801; Seizure; Epilepsy (Morimoto, T. (84) 204)

$G_{\alpha i\text{-}2}$ mRNA; Cerebral cortex (Eriksson, P.S. (84) 208)

Retino-hypothalamic projection; Suprachiasmatic nucleus; Development; Cholera toxin; Substance P; Neuropeptide Y; Serotonin (Takatsuji, K. (84) 261)

Barrel; Infraorbital nerve; Somatosensory cortex; Histochemistry (Chiaia, N.L. (84) 271)

Olfaction; Septal organ of Masera; Development; Immunocytochemistry (Giannetti, N. (84) 287)

Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin-3; *trk*; Visual; Light-deprivation (Schoups, A.A. (86) 326)

Blood–brain barrier; Permeability; Blood flow; Glycine; Mannitol; Neonate; Development (Preston, J.E. (87) 69)

Corticotropin-releasing factor; Infant; Ultrasonic vocalization; Maternal separation (Harvey, A.T. (87) 125)

Ontogenesis; Epileptiform activity; Hippocampus; Entorhinal cortex; Field potential (Gloveli, T. (87) 145)

Central nervous system; Development; Iron; Endothelium; Choroid plexus; Macrophage; Microglia; Histochemistry (Moos, T. (87) 203)

Corticospinal tract; Cervical spinal cord; Interneuron; c-*fos*; Postnatal maturation; Transient connection (Curfs, M.H.J.M. (87) 214)

Development; Neocortex; Protomap; Neurotransplantation; Corticostriate projection (Garnier, C. (89) 1)

Cochlea; Postnatal development; GAP-43; Synaptophysin (Knipper, M. (89) 73)

Growth-associated protein; Sensitive period; Axonal regeneration; Growth and development; Gustatory pathway; Chorda-tympani nerve; Facial nerve; Geniculate ganglion (Lasiter, P.S. (89) 289)

Brain; Cerebellum; Development; Borna disease virus; Neonatal infection; Granule cell; Neuron; Virus (Bautista, J.R. (90) 45)

Rat brain
Growth-associated protein; GAP-43/B-50/F-1/pp46; SCG10; p19/stathmin; Hybridization, in situ; Brain ontogenesis; Developmental gene expression (Sugiura, Y. (90) 73)

Rat embryo
Protein kinase C; Immunocytochemistry; Synaptogenesis; Spinal cord; Postnatal rat (Miki, A. (87) 46)

Rat pup
Arg-vasopressin; Circadian rhythm; Suprachiasmatic nucleus; Development (Isobe, Y. (85) 58)

Reactive astrocyte
Serotonin; Regeneration; Neuronal plasticity; S-100; Glia; Neurotrophic factor (Zhou, F.C. (84) 89)

Reaggregation culture, K252a
Cell migration; Granule cell; Kinase inhibitor; Microfilament (Kobayashi, S. (90) 122)

Receptor
Animal development; Dopamine; Pruning; Adolescence; Puberty (Teicher, M.H. (89) 167)

Adenosine; Fetus; Heart; Brain (Rivkees, S.A. (89) 202)

β-Receptor
Astrocyte culture; Cyclic AMP; Chick; Glycogenolysis; Mouse; Noradrenaline (O'Dowd, B.S. (88) 220)

Receptor binding
DAMGO; Morphine; Morphine-6-glucuronide; Morphine-3-glucuronide; Mu opioid receptor; Neonate; Guinea pig (Murphey, L.J. (85) 146)

Receptor subunit
γ-Aminobutyric acid; Neuron culture; Microtubule-associated protein 2; Synapse; Immunohistochemistry (Gao, B. (88) 1)

Recovery of function
N-Methyl-D-aspartate receptor; MK-801; Spinal cord; Developmental plasticity; Critical period (Maier, D.L. (87) 135)

Redox factor
APEX mRNA, AP endonuclease; Repair enzyme; Hybridization, in situ; Brain; Development; Mouse (Ono, Y. (86) 1)

Regeneration
Serotonin; Neuronal plasticity; Reactive astrocyte; S-100; Glia; Neurotrophic factor (Zhou, F.C. (84) 89)

Regional brain norepinephrine
Diabetes (type II); C57BL/KsJ (*db / db*) mice; Estradiol; Progesterone; Blood glucose levels; Diabetes-obesity syndrome (Garris, D.R. (89) 314)

Release
Synaptosome; Developmental; Glutamate; 5-Hydroxytryptamine (Jennings, P. (89) 120)

Remyelination
Insulin-like growth factor; Insulin; Myelination; Demyelination; Nerve tissue; Experimental allergic encephalomyelitis (Roth, G.A. (88) 102)

Repair enzyme
APEX mRNA; AP endonuclease; Redox factor; Hybridization, in situ; Brain; Development; Mouse (Ono, Y. (86) 1)

Repair of brain tissue
Midkine; Cerebral infarct; Neurotrophic factor; Astrocyte (Yoshida, Y. (85) 25)

Retina
Cell lineage; Stem cell; Growth control; *Xenopus laevis* (Wetts, R. (86) 57)

5′-Nucleotidase; Müller cell; Development; Ependyma (Braun, N. (88) 79)

Potassium; Differentiation; HPC-1; Thy-1; Rhodopsin; Cell death (Araki, M. (89) 103)

Oligodendrocyte; Glial cell; Müller cell; Tissue culture; Myelin marker; O-antigen (Scherer, J. (89) 214)

Adhesion molecule; Phosphotyrosine; Retinal axon; Optic tectum; Signalling (Stoker, A.W. (90) 129)

Mash-1; bHLH protein; Neurogenesis; Photoreceptor; Opsin (Ahmad, I. (90) 184)

Retinal axon
Adhesion molecule; Phosphotyrosine; Retina; Optic tectum; Signalling (Stoker, A.W. (90) 129)

Retinal degeneration mouse
Royal College of Surgeons dystrophic rat; Mullerian glia; Carbonic anhydrase-C; Cellular retinaldehyde-binding protein; Immunocytochemistry (Sheedlo, H.J. (85) 171)

Retinal ganglion cell
Bilateral projection; Double-labeling; Fluorescent tracer; Superior colliculus; Developing rat (Ahmed, A.K.M.F. (85) 71)

Retino-hypothalamic projection
Suprachiasmatic nucleus; Development; Cholera toxin; Substance P; Neuropeptide Y; Serotonin; Rat (Takatsuji, K. (84) 261)

Retinohypothalamic tract
Suprachiasmatic nucleus; Astrocyte; GFAP; Ontogenesis; Fos immunoreactivity (Lavialle, M. (86) 275)

Reverse transcription-polymerase chain reaction
α Adrenoceptor; Sympathetic neurone; Iris; Development; Aging (Vidovic, M. (89) 309)

Rhesus
Plasticity; Deafferentation; Cuneate nucleus; Brainstem; *Macaca* (Jain, N. (90) 24)

Rhodopsin
Cichlid retina; Histogenesis; Development; PCNA; GFAP; Visinin; GnRH; TH; 5-HT; γ-Aminobutyric acid; SP; NPY; Immunohistochemistry (Negishi, K. (89) 87)

Retina; Potassium; Differentiation; HPC-1; Thy-1; Cell death (Araki, M. (89) 103)

Rhodopsin mRNA
Development; Fetal bovine retina; Cone opsin mRNA; Topographic gene expression (Van Ginkel, P.R. (89) 146)

Righting reflex
Mouse; Bar holding; SNAP-25; ADHD; Synaptic protein; Neurotransmitter release; Synaptogenesis (Heyser, C.J. (89) 264)

mRNA
6-Phosphofructo-1-kinase; Development; Brain; Energy metabolism; Metabolic regulation; Isozyme; Protein synthesis; Western blotting; Northern analysis (Mhaskar, Y. (85) 54)

Tau; Neuritogenesis; Protein distribution; Cerebellum; In vitro; Cytoskeleton; Microtubule-associated protein (Przyborski, S.A. (87) 29)

Na^+ current; Development; Kinetic properties; Tetrodotoxin (Virginio, C. (87) 153)

MAP2; Microtubule-associated protein; Neuritogenesis; In vitro; Cerebellum; Protein distribution (Przyborski, S.A. (89) 187)

Dopamine D_4 receptor; Brain; Development; Polymerase chain-reaction; Postnatal (Nair, V.D. (90) 180)

RNA editing
Brain; Development; GluR5; Kainate receptor (Paschen, W. (86) 359)

RNA in situ hybridization
PGP9.5, neurone specific; Ubiquitin; Development (Schofield, J.N. (85) 229)

mRNA localization
Intermediate filament; Central nervous system; Differentiation; Radial glial cell (Dahlstrand, J. (84) 109)

Royal College of Surgeons dystrophic rat
Retinal degeneration mouse; Mullerian glia; Carbonic anhydrase-C; Cellular retinaldehyde-binding protein; Immunocytochemistry (Sheedlo, H.J. (85) 171)

S

S-100
Serotonin; Regeneration; Neuronal plasticity; Reactive astrocyte; Glia; Neurotrophic factor (Zhou, F.C. (84) 89)

Glia; Ensheathing cell; LHRH neuron; Olfactory bulb; Development; Cell migration; Immunofluorescence (Cummings, D.M. (88) 148)

Saxitoxin
Growth cone; Synaptosome; Sodium channel; Development; β2 subunit; Western blot; Immunochemistry (Wood, M.R. (88) 194)

SCG10
Growth-associated protein; GAP-43/B-50/F-1/pp46; p19/stathmin; Hybridization, in situ; Rat brain; Brain ontogenesis; Developmental gene expression (Sugiura, Y. (90) 73)

Schizophrenia
Development; σ Binding site; *N*-Methyl-D-aspartate antagonist; Psychosis; Epilepsy (Sircar, R. (88) 224)

SCN
Biological clock; Light; Circadian rhythm; c-*fos*; SIDS (Clegg, D.A. (84) 46)

SDHACU
[^{3}H]HC-3 binding; ChAT; Hippocampus; Developmental rat; Lead-exposure; Septal lesion; Septal cell count (Tian, X. (86) 268)

Seizure
Hyperthermia; Rat; Glutamate; NMDA receptor; MK-801; Epilepsy (Morimoto, T. (84) 204)

Polyamine; *N*-Acetylpolyamine; Degeneration; Hippocampus; Piriform cortex; Developing rat brain (Hayashi, Y. (87) 96)

Caffeine; Adenosine receptor; Methylxanthine; Chemoconvulsant; Ontogeny (Guillet, R. (89) 124)

Seizure-induced brain damage
Kainic acid; Status epilepticus; Inositol-trisphosphate; Excitatory amino acid (Carmant, L. (89) 67)

Senile dementia of Alzheimer type
Apolipoprotein E; Amyloid precursor protein; Senile plaque; Astrocyte; Down syndrome (Arai, Y. (87) 228)

Senile plaque
Apolipoprotein E; Amyloid precursor protein; Astrocyte; Down syndrome; Senile dementia of Alzheimer type (Arai, Y. (87) 228)

Sensitive period
Growth-associated protein; Axonal regeneration; Growth and development; Rat; Gustatory pathway; Chorda-tympani nerve; Facial nerve; Geniculate ganglion (Lasiter, P.S. (89) 289)

Sensory deprivation
Immediate-early gene; Olfactory system; Afferent influence (Klintsova, A.Y. (86) 114)

Septal cell count
SDHACU; [^{3}H]HC-3 binding; ChAT; Hippocampus; Developmental rat; Lead-exposure; Septal lesion (Tian, X. (86) 268)

Septal lesion
SDHACU; [^{3}H]HC-3 binding; ChAT; Hippocampus; Developmental rat; Lead-exposure; Septal cell count (Tian, X. (86) 268)

Septal organ of Masera
Rat; Olfaction; Development; Immunocytochemistry (Giannetti, N. (84) 287)

Septohippocampal system
Fetal alcohol syndrome; Ethanol; Ethanol neurotoxicity; Neurotrophic factor; NGF; bFGF; Neuroprotection (Heaton, M.B. (85) 1)

Fetal alcohol syndrome; Ethanol; Chemoattraction; Spinal cord; Target-directed axonal growth (Barrow Heaton, M. (89) 270)

Serotonin
Regeneration; Neuronal plasticity; Reactive astrocyte; S-100; Glia; Neurotrophic factor (Zhou, F.C. (84) 89)

Retino-hypothalamic projection; Suprachiasmatic nucleus; Development; Cholera toxin; Substance P; Neuropeptide Y; Rat (Takatsuji, K. (84) 261)

Amino acid; Catecholamine; Cocaine; Dopamine; Sex difference (Miller, M.W. (87) 22)

Cocaine; Development; Stimulant; Glucose metabolism; Mechanism; Fluoxetine; Dopamine; GBR12909 (Frick, G.S. (88) 158)

Immunocytochemistry; Enucleation; Electron microscopy (Arce, E.A. (90) 168)

Serum
Chicken; Pineal; Hydroxyindole-*O*-methyltransferase; Messenger RNA (Grechez-Cassiau, A. (88) 204)

Sex differences
Stress; Corticosterone; Adrenocorticotropin; Glucocorticoid receptors; Corticosterone bind-

ing globulin; Prenatal stress (McCormick, C.M. (84) 55)

Amino acid; Catecholamine; Cocaine; Dopamine; Serotonin (Miller, M.W. (87) 22)

Sexual behavior
Vasopressin; Suprachiasmatic nucleus; Sexual partner preference; Hypothalamus; Aromatase blocker; Male rat (Swaab, D.F. (85) 273)

Sexual differentiation
Synapse elimination; Neuromuscular; Androgen; Levator ani; Synaptic development (Jordan, C.L. (84) 225)

Preoptic area; Estrogen receptor mRNA; Development; Steroid hormone (DonCarlos, L.L. (84) 253)

Estrogen; Zebra finch; Higher vocal center; Birdsong; Neuronal survival (Burek, M.J. (85) 220)

Female sexual behavior; Luteinizing hormone; Postnatal period (Diaz, D.R. (86) 227)

Sexual partner preference
Vasopressin; Suprachiasmatic nucleus; Sexual behavior; Hypothalamus; Aromatase blocker; Male rat (Swaab, D.F. (85) 273)

Sheep
Cytochrome oxidase; Metabolism; Brainstem; Development; Perinatal; Adult; Birth (Tai, T.-C. (86) 7)

Cocaine; Fetal; Swallowing; Behavior; Ovine; Ingestion (Ross, M.G. (87) 120)

SIDS
Biological clock; SCN; Light; Circadian rhythm; c-*fos* (Clegg, D.A. (84) 46)

Signalling
Adhesion molecule; Phosphotyrosine; Retinal axon; Retina; Optic tectum (Stoker, A.W. (90) 129)

Signal transduction
Glutamate; Proteoglycan; Nitric oxide; Protein kinase C; Calcium-calmodulin type II kinase (Dow, K.E. (89) 320)

SKF 38393
Suprachiasmatic nucleus; Cocaine; c-*fos*; *jun*-B; Fetus; Circadian rhythm (Weaver, D.R. (85) 293)

SNAP-25
Mouse; Righting reflex; Bar holding; ADHD; Synaptic protein; Neurotransmitter release; Synaptogenesis (Heyser, C.J. (89) 264)

Sodium channel
Growth cone; Synaptosome; Saxitoxin; Development; β2 subunit; Western blot; Immunochemistry (Wood, M.R. (88) 194)

Sodium pentobarbital
N-Methyl-D-aspartate; Ketamine; Conditioned taste aversion; Fetus; Anesthesia; Learning; Development; Neural plasticity (Mickley, G.A. (85) 119)

Somatosensory cortex
Rat; Barrel; Infraorbital nerve; Histochemistry (Chiaia, N.L. (84) 271)

Somatostatin
Glutamate; AMPA/Kainate; Hypothalamic neuron; Development in vitro (Gardette, R. (86) 123)

Chromaffin cell; Neurotrophic factor; Neuropeptide Y; Enkephalin; Catecholamine; Plasticity (Ramírez-Ordóñez, R. (87) 160)

Cerebellar granule cell; Central nervous system development; Neurite extension; Neurofilament; Neurofilament mRNA; Neurotrophic factor (Taniwaki, T. (88) 109)

Somite
Tenascin; Axon outgrowth; Peripheral nervous system development; Neural crest (Yip, J.W. (86) 297)

SP
Cichlid retina; Histogenesis; Development; PCNA; GFAP; Rhodopsin; Visinin; GnRH; TH; 5-HT; γ-Aminobutyric acid; NPY; Immunohistochemistry (Negishi, K. (89) 87)

***Sparse fur* mouse**
Urea cycle; Quinolinic acid; Excitotoxicity; *N*-Methyl-D-aspartate; Ornithine carbamoyltransferase deficiency; Animal model (Robinson, M.B. (90) 35)

Spinal cord
NADPH-diaphorase; Nitric oxide synthase; Frog; Metamorphosis (Crowe, M.J. (86) 155)

Apoptosis; Motoneuron; Chick embryo; Cellular calcium; Development (Ciutat, D. (86) 167)

Protein kinase C; Immunocytochemistry; Synaptogenesis; Rat embryo; Postnatal rat (Miki, A. (87) 46)

N-Methyl-D-aspartate receptor; MK-801; Developmental plasticity; Critical period; Recovery of function (Maier, D.L. (87) 135)

Myelin; Explant; Conduction block; Potassium channel; Synapse (Shrager, P. (88) 68)

Fetal alcohol syndrome; Ethanol; Chemoattraction; Septohippocampal system; Target-directed axonal growth (Barrow Heaton, M. (89) 270)

Spinal cord neuron
Fos; Immediate-early gene; Ontogeny; Epigenetic signal; Mouse (Agoston, D.V. (89) 173)

Sprouting
Neuroplasticity; Visual cortex; Superior colliculus (Adelson, P.D. (86) 81)

Static culture
γ-Irradiation; Biocytin tracing; Electron microscopy; Synaptogenesis (Gaiarsa, J.-L. (86) 250)

Status epilepticus
Kainic acid; Inositol-trisphosphate; Seizure-induced brain damage; Excitatory amino acid (Carmant, L. (89) 67)

Stem cell
Cell lineage; Retina; Growth control; *Xenopus laevis* (Wetts, R. (86) 57)

Epidermal growth factor; Subventricular zone; Gliogenesis; Neurogenesis; Progenitor (Weickert, C.S. (86) 203)

Stem cell factor
c-*kit* receptor; Dorsal root ganglion; Nerve growth factor; Leukemia inhibitory factor; Substance P; Growth cone; Mouse (Hirata, T. (85) 201)

Steroid hormone
Sexual differentiation; Preoptic area; Estrogen receptor mRNA; Development (DonCarlos, L.L. (84) 253)

Stimulant
Cocaine; Development; Glucose metabolism; Mechanism; Fluoxetine; Dopamine; Serotonin; GBR12909 (Frick, G.S. (88) 158)

Stress
Corticosterone; Adrenocorticotropin; Glucocorticoid receptors; Corticosterone binding globulin; Sex differences; Prenatal stress (McCormick, C.M. (84) 55)

Striatal neuron
Neurotrophin; Cell culture; DARPP-32; Excitotoxicity; Huntington's disease; Platelet-derived growth factor (Nakao, N. (90) 92)

Striatum
Brain-derived neurotrophic factor; Dopamine receptor; Substantia nigra; Transplant; trkB; Intraocular graft; Dopamine (Strömberg, I. (84) 215)

Subplate cell
Albinism; Corpus callosum; Neural plasticity; Binocular vision; Eye alignment (Grant, S. (88) 132)

Substance P
Retino-hypothalamic projection; Suprachiasmatic nucleus; Development; Cholera toxin; Neuropeptide Y; Serotonin; Rat (Takatsuji, K. (84) 261)

c-*kit* receptor; Dorsal root ganglion; Stem cell factor; Nerve growth factor; Leukemia inhibitory factor; Growth cone; Mouse (Hirata, T. (85) 201)

Substantia nigra
Brain-derived neurotrophic factor; Dopamine receptor; Striatum; Transplant; trkB; Intraocular graft; Dopamine (Strömberg, I. (84) 215)

Dopamine neuron; Tyrosine hydroxylase; Ontogenesis; Migration; Radial glia; Tenascin; DiI (Kawano, H. (86) 101)

Animal model; Dopamine; Parkinson's disease; Postnatal; Development; Cell death (Verney, C. (89) 115)

Subventricular zone
Epidermal growth factor; Gliogenesis; Neurogenesis; Stem cell; Progenitor (Weickert, C.S. (86) 203)

Superior cervical ganglion
Co-localization; Dopamine-β-hydroxylase; Choline acetyl transferase; Fetal; Pig; Adrenergic; Cholinergic (Wang, J.M. (90) 17)

Superior colliculus
Chondroitin sulfate proteoglycan; Electron microscopy; Horseradish peroxidase; Development; Neuronal death (Huxlin, K.R. (84) 77)

Retinal ganglion cell; Bilateral projection; Double-labeling; Fluorescent tracer; Developing rat (Ahmed, A.K.M.F. (85) 71)

Sprouting; Neuroplasticity; Visual cortex (Adelson, P.D. (86) 81)

Superior olivary complex
Trapezoid body; Auditory development; Growth cone; Cochlear nucleus; DiI (Niblock, M.M. (85) 288)

Suprachiasmatic nucleus
Retino-hypothalamic projection; Development; Cholera toxin; Substance P; Neuropeptide Y; Serotonin; Rat (Takatsuji, K. (84) 261)

Arg-vasopressin; Circadian rhythm; Development; Rat pup (Isobe, Y. (85) 58)

Vasopressin; Sexual behavior; Sexual partner preference; Hypothalamus; Aromatase blocker; Male rat (Swaab, D.F. (85) 273)

Cocaine; SKF 38393; c-*fos*; *jun*-B; Fetus; Circadian rhythm (Weaver, D.R. (85) 293)

Radial glia; Astrocyte; Vasoactive intestinal peptide; Circadian rhythm; Vimentin; Glial fibrillary acidic protein; Development (Botchkina, G.I. (86) 48)

Astrocyte; GFAP; Ontogenesis; Fos immunoreactivity; Retinohypothalamic tract (Lavialle, M. (86) 275)

Supraoptic nucleus
Monodelphis; Morphogenesis; Development; Hypothalamus; Paraventricular nucleus (Iqbal, J. (89) 11)

Swallowing
Cocaine; Fetal; Sheep; Behavior; Ovine; Ingestion (Ross, M.G. (87) 120)

Swine
Cocaine; β-Endorphin; Methionine-enkephalin; Dynorphin A; Dynorphin B; Brainstem; Newborn (Zhang, C. (87) 188)

Sympathetic neurone
α Adrenoceptor; Iris; Reverse transcription-polymerase chain reaction; Development; Aging (Vidovic, M. (89) 309)

Synapse
γ-Aminobutyric acid; Receptor subunit; Neuron culture; Microtubule-associated protein 2; Immunohistochemistry (Gao, B. (88) 1)

Myelin; Spinal cord; Explant; Conduction block; Potassium channel (Shrager, P. (88) 68)

Synapse elimination
Neuromuscular; Androgen; Levator ani; Sexual differentiation; Synaptic development (Jordan, C.L. (84) 225)

Ipsilateral projection; Cerebellum; Purkinje cell; Climbing fiber; X-irradiation; Vibrissae (Fuhrman, Y. (87) 172)

Synapse maturation
Fatty acid-binding protein; Immunohistochemistry; Neurite formation; Mouse (Sellner, P.A. (89) 33)

Synaptic development
Synapse elimination; Neuromuscular; Androgen; Levator ani; Sexual differentiation (Jordan, C.L. (84) 225)

Synaptic plasticity
Motoneuron regeneration; Neuromuscular reinnervation; Crayfish; Uropod (Lee, H.-J. (87) 179)

Synaptic protein
Mouse; Righting reflex; Bar holding; SNAP-25; ADHD; Neurotransmitter release; Synaptogenesis (Heyser, C.J. (89) 264)

Synaptogenesis
Static culture; γ-Irradiation; Biocytin tracing; Electron microscopy (Gaiarsa, J.-L. (86) 250)

Protein kinase C; Immunocytochemistry; Spinal cord; Rat embryo; Postnatal rat (Miki, A. (87) 46)

Neuroepithelium; Olfactory bulb; Neurite; Amyloid (Clarris, H.J. (88) 87)

Mouse; Righting reflex; Bar holding; SNAP-25; ADHD; Synaptic protein; Neurotransmitter release (Heyser, C.J. (89) 264)

Synaptophysin
Cochlea; Postnatal development; GAP-43; Rat (Knipper, M. (89) 73)

Synaptosome
Growth cone; Saxitoxin; Sodium channel; Development; β2 subunit; Western blot; Immunochemistry (Wood, M.R. (88) 194)

Release; Developmental; Glutamate; 5-Hydroxytryptamine (Jennings, P. (89) 120)

T

Tactile stimulation
Norepinephrine; Microdialysis; Olfaction; Learning; Development; Olfactory bulb (Rangel, S. (85) 187)

Target-directed axonal growth
Fetal alcohol syndrome; Ethanol; Chemoattraction; Septohippocampal system; Spinal cord (Barrow Heaton, M. (89) 270)

Target tissue
Growth cone; Lamella; Cyclic remodelling; Axon guidance; Motility (Gallo, G. (85) 140)

Tau
Neuritogenesis; mRNA; Protein distribution; Cerebellum; In vitro; Cytoskeleton; Microtubule-associated protein (Przyborski, S.A. (87) 29)

Taurine
Puberty; LH; LHRH; HPLC; γ-Aminobutyric acid; Amino acid neurotransmitter (Arias, P. (85) 137)

Tenascin
Substantia nigra; Dopamine neuron; Tyrosine hydroxylase; Ontogenesis; Migration; Radial glia; DiI (Kawano, H. (86) 101)

Axon outgrowth; Peripheral nervous system development; Somite; Neural crest (Yip, J.W. (86) 297)

HNK-1; Adhesion molecule; *Xenopus*; Frog embryo; Developing myotome; Developing neuromuscular junction (Somasekhar, T. (88) 53)

Tetrodotoxin
Na^+ current; Development; mRNA; Kinetic properties (Virginio, C. (87) 153)

TH
Cichlid retina; Histogenesis; Development; PCNA; GFAP; Rhodopsin; Visinin; GnRH; 5-HT; γ-Aminobutyric acid; SP; NPY; Immunohistochemistry (Negishi, K. (89) 87)

Thalamic reticular nucleus
Biotinylated dextran amine; Corticothalamic; Postnatal development; Ventrobasal nucleus; Posterior nucleus (Frassoni, C. (90) 111)

Thalamic ventrobasal complex
Fetal brain injury; Neuronal cell death; Brain development; Thalamus; Neocortex (Loopuijt, L.D. (85) 259)

Thalamocortical
Acetylcholinesterase; Basal forebrain; Cholinergic; Deafferentation; Visual cortex (Kimm, E.J. (85) 283)

Acetylcholinesterase; Axonal growth; Competition; Elvax; Phospholine iodide (Ling, J.J. (86) 354)

Thalamocortical relay cell
Barreloid; Pattern formation; Barrel (Brown, K.E. (86) 335)

Thalamus
Fetal brain injury; Neuronal cell death; Brain development; Neocortex; Thalamic ventrobasal complex (Loopuijt, L.D. (85) 259)

Neonatal brain injury; Fetal brain injury; Neuronal cell death; Abnormal brain development; Neocortex (Jackson III, G.F. (90) 62)

Thapsigargin
Neurite initiation; Calcium; Dorsal root ganglion; Culture; Rat (Lankford, K.L. (84) 151)

Thrombin
GAP-43; Neurite outgrowth; Neuronal maturation; Growth cone; Adhesion; Neuronal surface protease; Hirudin (Shea, T.B. (87) 87)

Thy-1
Retina; Potassium; Differentiation; HPC-1; Rhodopsin; Cell death (Araki, M. (89) 103)

Thyroid hormone
Visual cortex; Pyramidal tract; Collateral elimination; Transient projection (Li, C.-P. (89) 227)

Tissue culture
Oligodendrocyte; Glial cell; Retina; Müller cell; Myelin marker; O-antigen (Scherer, J. (89) 214)

Topographic gene expression
Development; Fetal bovine retina; Rhodopsin mRNA; Cone opsin mRNA (Van Ginkel, P.R. (89) 146)

Topographic map
Auditory system; Directional hearing; Development; Inferior colliculus; Dark-rearing; Auditory deprivation (Binns, K.E. (85) 14)

TPA
PKC; Astrocyte; Glia; PLC; PLD; Chick embryo; Glutamate; Muscarinic; Calcium; Tyrosine kinase (PTK) (Mangoura, D. (87) 12)

Transforming growth factor-β
Olfactory keratin-positive basal cell; Neural cell adhesion molecule; Calcium (Satoh, M. (87) 111)

Hyaluronan; Basic fibroblast growth factor; Extracellular matrix; Embryonic glial cell (Deyst, K.A. (88) 122)

Transient connection
Corticospinal tract; Cervical spinal cord; Interneuron; c-*fos*; Postnatal maturation; Rat (Curfs, M.H.J.M. (87) 214)

Transient projection
Visual cortex; Thyroid hormone; Pyramidal tract; Collateral elimination (Li, C.-P. (89) 227)

Transmitter responsiveness
Precursor cell; Embryonal carcinoma (Magnuson, D.S.K. (90) 141)

Transplant
Precursor cell; Embryonal carcinoma; Neuronal differentiation; Electrophysiology; Development (Magnuson, D.S.K. (84) 130)

Brain-derived neurotrophic factor; Dopamine receptor; Substantia nigra; Striatum; trkB; Intraocular graft; Dopamine (Strömberg, I. (84) 215)

Progenitor cell; Ciliary neurotrophic factor; Oncogene; Cytoskeleton; Peripheral nerve (Doering, L.C. (89) 56)

Trapezoid body
Auditory development; Growth cone; Superior olivary complex; Cochlear nucleus; DiI (Niblock, M.M. (85) 288)

TRH, pyroglutamyl peptidase II
Hypothalamus; Primary culture, conditioned medium (Charli, J.-L. (89) 155)

trk
Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin-3; Rat; Visual; Light-deprivation (Schoups, A.A. (86) 326)

Trk tyrosine kinase receptor
Inorganic mercury; Amalgam; NGF; Choline acetyltransferase; p75 low-affinity NGF receptor; Brain lesion (Söderström, S. (85) 96)

Truncated insulin-like growth factor-1
Insulin-like growth factor; Olfactory bulb; Intraocular transplantation; Non-linear mixed-effects models (Giacobini, M.M.J. (84) 67)

Tyrosine hydroxylase
Mesencephalon; Dopamine D-2 receptor; Dopamine synthesis; High-performance liquid chromatography; Parkinson's disease (Van Muiswinkel, F.L. (85) 128)

Substantia nigra; Dopamine neuron; Ontogenesis; Migration; Radial glia; Tenascin; DiI (Kawano, H. (86) 101)

Tyrosine kinase
Neuronal differentiation; Cyclic AMP; Nerve growth factor; Protein phosphorylation; Neurite (Wu, C.-f. (86) 217)

Tyrosine kinase (PTK)
PKC; Astrocyte; Glia; PLC; PLD; Chick embryo; TPA; Glutamate; Muscarinic; Calcium (Mangoura, D. (87) 12)

U

Ubiquitin
PGP9.5, neurone specific; Development; RNA in situ hybridization (Schofield, J.N. (85) 229)

Ultrasonic vocalization
Corticotropin-releasing factor; Rat; Infant; Maternal separation (Harvey, A.T. (87) 125)

Urea cycle
Quinolinic acid; Excitotoxicity; *N*-Methyl-D-aspartate; Ornithine carbamoyltransferase deficiency; Animal model; *Sparse fur* mouse (Robinson, M.B. (90) 35)

Uropod
Motoneuron regeneration; Neuromuscular reinnervation; Synaptic plasticity; Crayfish (Lee, H.-J. (87) 179)

V

Vascular endothelial cell
Neurite outgrowth; Adhesion molecule; Vitronectin; Heparan sulfate proteoglycan (Isahara, K. (84) 164)

Vasoactive intestinal peptide
Radial glia; Astrocyte; Suprachiasmatic nucleus; Circadian rhythm; Vimentin; Glial fibrillary acidic protein; Development (Botchkina, G.I. (86) 48)

Vasopressin
Suprachiasmatic nucleus; Sexual behavior; Sexual partner preference; Hypothalamus; Aromatase blocker; Male rat (Swaab, D.F. (85) 273)

Ventral mesencephalon
Wistar rat; Neurite outgrowth (Holmes, C. (88) 212)

Ventrobasal nucleus
Biotinylated dextran amine; Corticothalamic; Postnatal development; Thalamic reticular nucleus; Posterior nucleus (Frassoni, C. (90) 111)

Vibrissa
N-Methyl-D-aspartate; QUIS receptor; Non-NMDA receptor; Metabotropic receptor; Development; Autoradiography; Cerebral cortex (Blue, M.E. (84) 11)

Vibrissae
Synapse elimination; Ipsilateral projection; Cerebellum; Purkinje cell; Climbing fiber; X-irradiation (Fuhrman, Y. (87) 172)

Vibrissae stimulation
Neurotoxicity; Metabolism; Barrel cortex (Wu, C.-C. (87) 62)

Vimentin
Radial glia; Astrocyte; Vasoactive intestinal peptide; Suprachiasmatic nucleus; Circadian rhythm; Glial fibrillary acidic protein; Development (Botchkina, G.I. (86) 48)

PKC; Glia; Astrocyte; Glutamine synthetase; Chick embryo; Cytoskeleton; Cell lineage; PKA; PLD; HB; Calyculin A (Mangoura, D. (87) 1)

Virus
Brain; Cerebellum; Development; Rat; Borna disease virus; Neonatal infection; Granule cell; Neuron (Bautista, J.R. (90) 45)

Visinin
Cichlid retina; Histogenesis; Development; PCNA; GFAP; Rhodopsin; GnRH; TH; 5-HT; γ-Aminobutyric acid; SP; NPY; Immunohistochemistry (Negishi, K. (89) 87)

Visual
Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin-3; *trk*; Rat; Light-deprivation (Schoups, A.A. (86) 326)

Visual cortex
Acetylcholinesterase; Basal forebrain; Cholinergic; Deafferentation; Thalamocortical (Kimm, E.J. (85) 283)

Sprouting; Neuroplasticity; Superior colliculus (Adelson, P.D. (86) 81)

Thyroid hormone; Pyramidal tract; Collateral elimination; Transient projection (Li, C.-P. (89) 227)

Visual development
Gene expression; Plasticity; Proto-oncogene; Zif-268; Krox-24 (Kaplan, I.V. (90) 174)

Vitronectin
Vascular endothelial cell; Neurite outgrowth; Adhesion molecule; Heparan sulfate proteoglycan (Isahara, K. (84) 164)

VMN
Dendritic spine; Estrogen; Gonadectomy; Aromatase; Hippocampus (Lewis, C. (87) 91)

W

Weaver mice
$GABA_A$ receptor; In situ hybridization; Cerebellar development; Purkinje neuron; Cerebellum; Mutant mouse (Beattie, C.E. (88) 171)

***Weaver* mouse**
Programmed cell death; Death-associated mRNA; Fragmented DNA; Granular neuron; In situ hybridization (Owens, G.P. (86) 35)

Western blot
Growth cone; Synaptosome; Saxitoxin; Sodium channel; Development; β2 subunit; Immunochemistry (Wood, M.R. (88) 194)

Western Blot analysis
AMPA receptor; Cyclothiazide; Cerebellar granule cells (Hack, N.J. (87) 55)

Western blotting
6-Phosphofructo-1-kinase; Development; Brain; Energy metabolism; Metabolic regulation; Isozyme; Protein synthesis; mRNA; Northern analysis (Mhaskar, Y. (85) 54)

Whole cell recording
Nucleus of solitary tract; Gustatory; Development; Intrinsic electrophysiological property; Brainstem slice; Dendrite (Bao, H. (86) 143)

Wistar rat
Neurite outgrowth; Ventral mesencephalon (Holmes, C. (88) 212)

X

Xanthine dehydrogenase
Excitotoxicity; Free radical; Xanthine oxidase; Olfactory cortex; Hippocampus (Battelli, M.G. (86) 340)

Xanthine oxidase
Excitotoxicity; Free radical; Xanthine dehydrogenase; Olfactory cortex; Hippocampus (Battelli, M.G. (86) 340)

Xenopus
HNK-1; Tenascin; Adhesion molecule; Frog embryo; Developing myotome; Developing neuromuscular junction (Somasekhar, T. (88) 53)

Xenopus laevis
Cell lineage; Retina; Stem cell; Growth control (Wetts, R. (86) 57)

X-irradiation
Synapse elimination; Ipsilateral projection; Cerebellum; Purkinje cell; Climbing fiber; Vibrissae (Fuhrman, Y. (87) 172)

Z

Zebra finch
Sexual differentiation; Estrogen; Higher vocal center; Birdsong; Neuronal survival (Burek, M.J. (85) 220)

Zeta
Protein kinase C; Development; Isoform (Hunter, S.E. (85) 239)

Zif-268
Gene expression; Visual development; Plasticity; Proto-oncogene; Krox-24 (Kaplan, I.V. (90) 174)

MOLECULAR BRAIN RESEARCH
SUBJECT INDEX
1995
VOLUMES 28–34

A

Abe, H., see Guo, H. (33) 121

Abogadie, F.C., Bruch, R.C., Wurzburger, R., Margolis, F.L. and Farbman, A.I.
Molecular cloning of a phosphoinositide-specific phospholipase C from catfish olfactory rosettes (31) 10

Abraham, W.C., Mason-Parker, S.E., Williams, J. and Dragunow, M.
Analysis of the decremental nature of LTP in the dentate gyrus (30) 367

Abraham, W.C., see Williams, J. (28) 87

Abramovitz, M., Testori, A., Angelov, I.V., Darmon, A. and Listowsky, I.
Brain and testis selective expression of the glutathione *S*-transferase Yb_3 subunit is governed by tandem direct repeat octamer motifs in the 5′-flanking region of its gene (28) 37

Abrous, D.N., see Mennicken, F. (28) 211

Agarwal, N., see Jaynes, C.D. (32) 329

Agarwal, N., see Jomary, C. (29) 172

Agui, H., see Tohdoh, N. (30) 381

Ahir, A., see Jomary, C. (29) 172

Aizawa, S., see Ikeda, K. (33) 61

Akabayashi, A., see Watanabe, Y. (28) 135

Akagi, T., see Tomizawa, K. (28) 122

Akil, H., see Ruzicka, B.B. (34) 209

Akita, H., see Matsuyama, T. (34) 166

Akopian, A.N., see Ninkina, N.N. (33) 233

Alberici, A., see Pizzi, M. (34) 38

Alonso, R., see Poirier, J. (34) 57

Andretic, R., see O'Hara, B.F. (28) 239

Angelov, I.V., see Abramovitz, M. (28) 37

Angulo, J., see Riftina, F. (33) 201

Angulo, J.A., Williams, A., Ledoux, M., Watanabe, Y. and McEwen, B.S.
Elevation of striatal and accumbal preproenkephalin, preprotachykinin and preprodynorphin mRNA abundance subsequent to *N*-methyl-D-aspartate receptor blockade with MK-801 (29) 15

Ann, D.K., see Wick, M.J. (32) 171

Antonelli, M.C., see Eakin, T.J. (29) 71

Arai, A., see Vanderklish, P. (32) 25

Araki, K., see Ikeda, K. (33) 61

Araki, T., see Shida, T. (33) 261

Arnauld, E., Arsaut, J., Tafani, J.-A.M. and Demotes-Mainard, J.
Dopaminergic control of gene transcription during striatal ontogeny: c-*fos* induction by D1 receptor activation in the developing striosomes (30) 223

Arrighi, V., see Pizzi, M. (34) 38

Arsaut, J., see Arnauld, E. (30) 223

Asakura, K., Miller, D.J., Pogulis, R.J., Pease, L.R. and Rodriguez, M.
Oligodendrocyte-reactive O1, O4, and HNK-1 monoclonal antibodies are encoded by germline immunoglobulin genes (34) 283

Asanuma, M., Nishibayashi, S., Kondo, Y., Iwata, E., Tsuda, M. and Ogawa, N.
Effects of single cyclosporin A pretreatment on pentylenetetrazol-induced convulsion and on TRE-binding activity in the rat brain (33) 29

Attali, B., see Matus-Leibovitch, N. (34) 221

Augood, S.J., see Harrington, K.A. (33) 333

Avidor-Reiss, T., see Matus-Leibovitch, N. (34) 221

Azmitia, E.C., see Ueda, S. (29) 365

B

Baas, F., see Piosik, P.A. (29) 119

Backstrom, J.R., Westphal, R.S., Canton, H. and Sanders-Bush, E.
Identification of rat serotonin 5-HT_{2C} receptors as glycoproteins containing N-linked oligosaccharides (33) 311

Baetge, E.E., see Gribkoff, V.K. (30) 29

Bain, D., see Lowenstein, P.R. (30) 169

Bare, D.J., see Shock, L.P. (28) 110

Barg, J., see Matus-Leibovitch, N. (34) 221

Barone, F.C., see Fan, L. (30) 125

Barrón, S., Tusell, J.M. and Serratosa, J.
Effect of hexachlorocyclohexane isomers on calmodulin mRNA expression in the central nervous system (30) 279

Bartolome, J.V., Wang, S. and Bartolome, M.B.
Transcription-dependent and -independent regulation of hepatic ornithine decarboxylase activity by CNS β-endorphin in rat pups (33) 149

Bartolome, M.B., see Bartolome, J.V. (33) 149

Bartsch, U., see Jucker, M. (28) 149

Basheer, R., see Tempel, A. (33) 227

Baskin, D.G., see Eakin, T.J. (29) 71

Baskin, F., see Li, Y.-P. (30) 106

Bassett, N.S., see Beilharz, E.J. (29) 81

Baulieu, E.-E., see Guennoun, R. (30) 287

Baum, L., Seger, R., Woodgett, J.R., Kawabata, S., Maruyama, K., Koyama, M., Silver, J. and Saitoh, T.
Overexpressed tau protein in cultured cells is phosphorylated without formation of PHF: implication of phosphoprotein phosphatase involvement (34) 1

Bayney, R.M., see Dewji, N.N. (33) 245

Beattie, R., see Volsen, S.G. (34) 271

Becker, S., see Reichmuth, C. (32) 45

Beckwith, J.P., see Eastwood, S.L. (29) 211

Beffert, U., see Poirier, J. (34) 57

Beilharz, E.J., Bassett, N.S., Sirimanne, E.S., Williams, C.E. and Gluckman, P.D.
Insulin-like growth factor II is induced during wound repair following hypoxic–ischemic injury in the developing rat brain (29) 81

Beilharz, E.J., Williams, C.E., Dragunow, M., Sirimanne, E.S. and Gluckman, P.D.
Mechanisms of delayed cell death following hypoxic-ischemic injury in the immature rat: evidence for apoptosis during selective neuronal loss (29) 1

Beitz, A.J., see Kus, L. (28) 55

Belin, M.-F., see Besançon, R. (29) 253

Bell III, J., see Ueda, S. (29) 365

Belloni, M., see Pizzi, M. (34) 38

Benson, D.L., see Murray, K.D. (32) 221

Benz, M., see Reichmuth, C. (32) 45

Berman, S.A., see Didier, M. (30) 17

Bertrand, P., Poirier, J., Oda, T., Finch, C.E. and Pasinetti, G.M.
Association of apolipoprotein E genotype with brain levels of apolipoprotein E and apolipoprotein J (clusterin) in Alzheimer disease (33) 174

Besançon, R., Chouaf, L., Jouvet, A., Sliwinski, S., Belin, M.-F. and Fèvre-Montange, M.
Developmental expression of tryptophan hydroxylase mRNAs in the rat pineal gland: an in situ hybridization study (29) 253

Bessert, D.A., Gutridge, K.L., Dunbar, J.C. and Carlock, L.R.
The identification of a functional nuclear localization signal in the Huntington disease protein (33) 165

Beyer, C., see Raab, H. (34) 333

Bird, G.S., see Donovan, D.M. (30) 327

Birman, S., see O'Regan, S. (32) 135

Birnbaum, A.K., Wotta, D.R., Law, P.Y. and Wilcox, G.L.
Functional expression of adrenergic and opioid receptors in *Xenopus* oocytes: interaction between α_2- and β_2-adrenergic receptors (28) 72

Birtsch, Ch., see Lobron, C. (30) 70

Björklund, A., see Campbell, K. (29) 273

Black, I.B., see Kim, T.-W. (32) 36

Black, J.A., Westenbroek, R.E., Catterall, W.A. and Waxman, S.G.
Type II brain sodium channel expression in non-neuronal cells: embryonic rat osteoblasts (34) 89

Black, J.A., see Oh, Y. (30) 357

Black, J.A., see Sashihara, S. (34) 239

Black, J.A., see Zur, K.B. (30) 97

Blanchard, D.C., see Watanabe, Y. (32) 176

Blanchard, R.J., see Watanabe, Y. (32) 176

Bloch, B., see Jaber, M. (32) 156

Blom, J.M.C., see Riva, M.A. (34) 190

Bloom, D.C., Maidment, N.T., Tan, A., Dissette, V.B., Feldman, L.T. and Stevens, J.G.
Long-term expression of a reporter gene from latent herpes simplex virus in the rat hippocampus (31) 48

Bodemer, W., see Krasemann, S. (34) 173

Boksa, P., see Poirier, J. (34) 57

Bolden-Watson, C., see Yamada, M. (33) 343

Bolhuis, P.A., see Piosik, P.A. (29) 119

Borden, L.A., see Durkin, M.M. (33) 7

Borkoski, J.P., see Plata-Salamán, C.R. (33) 72

Bouldin, T.W., see Roberson, M.D. (28) 231

Box, T.L., see Severynse, D.M. (30) 336

Brame, B., see Jennes, L. (33) 104

Branchek, T.A., see Durkin, M.M. (33) 7

Bravo, R., see Williams, J. (28) 87

Bray, L., see Kingsbury, A.E. (28) 311

Brecher, C.W., see Peña, L.A. (34) 118

Brenner, M., see Zelenika, D. (30) 251

Brewer, G., see Keiger, C.J. (32) 75

Brewster, W.J., Fernyhough, P., Diemel, L.T., Mohiuddin, L. and Tomlinson, D.R.
Changes in nerve growth factor and preprotachykinin messenger RNA levels in the iris and trigeminal ganglion in diabetic rats; effects of treatment with insulin or nerve growth factor (29) 131

Broad, K.D., Keverne, E.B. and Kendrick, K.M.
Corticotrophin releasing factor mRNA expression in the sheep brain during preg-

nancy, parturition and lactation and following exogenous progesterone and oestrogen treatment (29) 310
Brooks, P.J., see Funabashi, T. (28) 129
Brozowski, S.J., see Valenzuela, C.F. (31) 165
Bruch, R.C., see Abogadie, F.C. (31) 10
Buchman, V.L., see Ninkina, N.N. (33) 233
Buchner, E., see Reichmuth, C. (32) 45
Bulfone, A., see Zhu, W. (30) 312
Bult, A., see Sharma, E. (32) 87
Burazin, T.C.D., see Shen, P.-J. (28) 222
Burbach, J.P.H., see Lopes da Silva, S. (30) 131
Burgess, L.H., see O'Keefe, J.A. (30) 115
Burke, L.C., see Lakin, N.D. (28) 47
Burnet, P.W.J., see Eastwood, S.L. (29) 211
Bursztajn, S., see Didier, M. (30) 17
Butterworth, N., see Dragunow, M. (30) 393
Buttiglione, M., Cangiano, G., Goridis, C. and Gennarini, G.
Characterization of the 5′ and promoter regions of the gene encoding the mouse neuronal cell adhesion molecule F3 (29) 297

C

Cairns, N., see Kingsbury, A.E. (28) 311
Campbell, E., see Ninkina, N.N. (33) 233
Campbell, K. and Björklund, A.
Neurotransmitter-related gene expression in intrastriatal striatal transplants. III. Regulation by host cortical and dopaminergic afferents (29) 273
Cangiano, G., see Buttiglione, M. (29) 297
Canton, H., see Backstrom, J.R. (33) 311
Caput, D., see Rodriguez, M. (29) 369
Carillon, C., see Rodriguez, M. (29) 369
Carlock, L.R., see Bessert, D.A. (33) 165
Caron, M.G., see Severynse, D.M. (30) 336
Carter, D.B., see McKinley, D.D. (28) 175
Carter, D.B., see O'Hara, B.F. (28) 239
Carvalho, A.P., see Gonçalves, P.P. (32) 161
Castro, M.G., see Lowenstein, P.R. (30) 169
Catterall, W.A., see Black, J.A. (34) 89
Centers, A., see Jennes, L. (33) 104
Cerezo, J.R., Jiménez, F. and Moya, F.
Characterization and gene cloning of *Drosophila* syntaxin 1 (Dsynt1): the fruit fly homologue of rat syntaxin 1 (29) 245
Chafetz, R.S., Nahm, W.K. and Noebels, J.L.
Aberrant expression of neuropeptide Y in hippocampal mossy fibers in the absence of local cell injury following the onset of spike-wave synchronization (31) 111
Chakrabarti, S., Law, P.-Y. and Loh, H.H.
Neuroblastoma $Neuro_{2A}$ cells stably expressing a cloned μ-opioid receptor: a specific cellular model to study acute and chronic effects of morphine (30) 269
Chalifour, L.E., see Chopra, V.S. (31) 173
Chan, P.H., see Mikawa, S. (33) 288
Chan, S.-O. and Chiu, F.-C.
Cloning and developmental expression of human 66 kd neurofilament protein (29) 177
Chan, S.-O., see Chiu, F.-C. (30) 77
Chang, S., see Mack, K.J. (29) 140
Charness, M.E., see Shiromani, P.J. (29) 163
Chatellard-Causse, C., see Cristina, N. (32) 354
Chen, D.-Z., see Ohkuma, S. (34) 347
Chen, H., Zhang, L., Rubinow, D.R. and Chuang, D.-M.
Chronic buspirone treatment differentially regulates 5-HT_{1A} and 5-HT_{2A} receptor mRNA and binding sites in various regions of the rat hippocampus (32) 348
Cheng, X., see Duncan, M.J. (32) 181
Chernak, J.M., see Ikari, H. (34) 315
Chiaramello, A., Soosaar, A., Neuman, T. and Zuber, M.X.
Differential expression and distinct DNA-binding specificity of ME1a and ME2 suggest a unique role during differentiation and neuronal plasticity (29) 107
Chiasson, B.J., Dennison, Z. and Robertson, H.A.
Amygdala kindling and immediate-early genes (29) 191
Chikada, N., see Imaki, T. (32) 261
Childers, S.R., see Kluttz, B.W. (32) 313
Chiu, F.-C., Feng, L., Chan, S.-O., Padin, C. and Federoff, H.J.
Expression of neurofilament proteins during retinoic acid-induced differentiation of P19 embryonal carcinoma cells (30) 77
Chiu, F.-C., see Chan, S.-O. (29) 177
Cho, T., see Yamada, M. (33) 343
Choi, W.S., Machida, C.A. and Ronnekleiv, O.K.
Distribution of dopamine D1, D2, and D5 receptor mRNAs in the monkey brain: ribonuclease protection assay analysis (31) 86
Chopp, M., see Li, Y. (28) 164
Chopra, V.S., Chalifour, L.E. and Schipper, H.M.
Differential effects of cysteamine on heat shock protein induction and cytoplasmic granulation in astrocytes and glioma cells (31) 173
Chouaf, L., see Besançon, R. (29) 253
Christie, D., see Dragunow, M. (32) 279
Chritin, M., see Mennicken, F. (28) 211
Chuang, D.-M., see Chen, H. (32) 348
Chue, C.-H., see Sasahara, M. (32) 63
Ciaranello, R.D., see Garlow, S.J. (31) 201
Ciaranello, R.D., see Zhong, P. (29) 23
Claude, P.A., see Prather, P.L. (29) 336
Clayton, D.F., see Wallace, C.S. (32) 211
Clissold, P.M., see Lowenstein, P.R. (30) 169
Cluzel, M., see Soto-Prior, A. (34) 337
Colapietro, A.-M., see Severynse, D.M. (30) 336
Coleman, N.J., see Yamada, M. (33) 343
Conn, P.M., see Jennes, L. (33) 104
Connor, J.A., see Kasof, G.M. (34) 197
Coquerel, A., see Rodriguez, M. (29) 369
Corcoran, L., see Ninkina, N.N. (33) 233
Corvol, P., see Lenkei, Z. (30) 53
Corvol, P., see Lenkei, Z. (34) 135
Costa, E., see Harris, B.T. (28) 338
Cox, H.J., see Luckman, S.M. (34) 231
Cox, J.J., see Lopes da Silva, S. (30) 131
Craig, P.J., see Volsen, S.G. (34) 271
Craviso, G.L., Hemelt, V.B. and Waymire, J.C.
The transient nicotinic stimulation of tyrosine hydroxylase gene transcription in bovine adrenal chromaffin cells is independent of c-*fos* gene activation (29) 233
Cristina, N., Chatellard-Causse, C., Manier, M. and Feuerstein, C.
GDNF: existence of a second transcript in the brain (32) 354
Crystal, R.G., see Ikari, H. (34) 315
Cuello, A.C., see Figueiredo, B.C. (33) 1
Curran, T., see Kasof, G.M. (34) 197

D

Da Costa, A.C., see Vellucci, S.V. (29) 64
Dahmen, J., see Zhu, W. (30) 312
Dalrymple, S.J., see Zacharias, D.A. (28) 263
Dämgen, K., see Lobron, C. (30) 70
Danoff, S., see Nucifora, Jr., F.C. (32) 291
Darmon, A., see Abramovitz, M. (28) 37
Daunais, J.B. and McGinty, J.F.
Cocaine binges differentially alter striatal preprodynorphin and *zif/*268 mRNAs (29) 201
Davis, R., see Li, Y.-P. (30) 106
Day, N.C., Williams, T.L., Ince, P.G., Kamboj, R.K., Lodge, D. and Shaw, P.J.
Distribution of AMPA-selective glutamate receptor subunits in the human hippocampus and cerebellum (31) 17
Day, N.C., see Volsen, S.G. (34) 271
Dea, D., see Poirier, J. (34) 57
Debel, K., see Reichmuth, C. (32) 45
De Blas, A.L., see Fernando, L.P. (28) 94
Deeds, J.D., see Weaver, D.R. (28) 296
Del C. Alonso, A., Grundke-Iqbal, I. and Iqbal, K.
Bovine and human tau, highly homologous but less crossreactive: implications for Alzheimer disease (31) 194
De Lecea, L., Del Río, J.A. and Soriano, E.
Developmental expression of parvalbumin mRNA in the cerebral cortex and hippocampus of the rat (32) 1
Del Río, J.A., see De Lecea, L. (32) 1
Demmer, J., see Williams, J. (28) 87
Demotes-Mainard, J., see Arnauld, E. (30) 223
Demura, H., see Imaki, T. (32) 261
Dennison, Z., see Chiasson, B.J. (29) 191
De Rijk, T.C., see Kamphuis, W. (31) 33
Desforges, M., see Séguin, D. (30) 242
Dewji, N.N., Do, C. and Bayney, R.M.
Transcriptional activation of Alzheimer's β-amyloid precursor protein gene by stress (33) 245

Didier, M., Berman, S.A., Lindstrom, J. and Bursztajn, S.
Characterization of nicotinic acetylcholine receptors expressed in primary cultures of cerebellar granule cells (30) 17
Diemel, L.T., see Brewster, W.J. (29) 131
Dikkes, P., see Tolentino, P.J. (33) 47
Dissette, V.B., see Bloom, D.C. (31) 48
Do, C., see Dewji, N.N. (33) 245
Docter, G.J., see Jongen-Rêlo, A.L. (28) 169
Dodd, J., see Dragunow, M. (32) 279
Donati, E., see Riva, M.A. (34) 190
Donovan, D.M., Vandenbergh, D.J., Perry, M.P., Bird, G.S., Ingersoll, R., Nanthakumar, E. and Uhl, G.R.
Human and mouse dopamine transporter genes: conservation of 5′-flanking sequence elements and gene structures (30) 327
Dragunow, M., Butterworth, N., Waldvogel, H., Faull, R.L.M. and Nicholson, L.F.B.
Prolonged expression of Fos-related antigens, Jun B and TrkB in dopamine-denervated striatal neurons (30) 393
Dragunow, M., Preston, K., Dodd, J., Young, D., Lawlor, P. and Christie, D.
Clusterin accumulates in dying neurons following status epilepticus (32) 279
Dragunow, M., see Abraham, W.C. (30) 367
Dragunow, M., see Beilharz, E.J. (29) 1
Dragunow, M., see MacGibbon, G.A. (34) 294
Dragunow, M., see Williams, J. (28) 87
Dreyer, D.A., see McMillian, M.K. (31) 210
Du, Y., see Nagano, T. (32) 14
Dumont, Y., see Tong, Y. (34) 303
Dunbar, J.C., see Bessert, D.A. (33) 165
Duncan, M.J., Cheng, X. and Heller, K.S.
Photoperiodic exposure and time of day modulate the expression of arginine vasopressin mRNA and vasoactive intestinal peptide mRNA in the suprachiasmatic nuclei of Siberian hamsters (32) 181
Durkin, M.M., Smith, K.E., Borden, L.A., Weinshank, R.L., Branchek, T.A. and Gustafson, E.L.
Localization of messenger RNAs encoding three GABA transporters in rat brain: an in situ hybridization study (33) 7
Dworkin, S.I., see Kluttz, B.W. (32) 313
Dwyer, B.E., Nishimura, R.N. and Lu, S.-Y.
Differential expression of heme oxygenase-1 in cultured cortical neurons and astrocytes determined by the aid of a new heme oxygenase antibody. Response to oxidative stress (30) 37

E

Eakin, T.J., Antonelli, M.C., Malchiodi, E.L., Baskin, D.G. and Stahl, W.L.
Localization of the plasma membrane Ca^{2+}-ATPase isoform PMCA3 in rat cerebellum, choroid plexus and hippocampus (29) 71
Eastwood, S.L., McDonald, B., Burnet, P.W.J., Beckwith, J.P., Kerwin, R.W. and Harrison, P.J.
Decreased expression of mRNAs encoding non-NMDA glutamate receptors GluR1 and GluR2 in medial temporal lobe neurons in schizophrenia (29) 211
Ebert, K., see Tolentino, P.J. (33) 47
Eckersell, C.B., see Priest, C.A. (28) 251
Eiter, C., see Tschernitz, C. (31) 131
Ellis, S.B., see Volsen, S.G. (34) 271
Emson, P.C., see Harrington, K.A. (33) 333
Emson, P.C., see Schindler, M. (34) 321
Emson, P.C., see Señaris, R.M. (29) 185
Epstein, A.L., see Lowenstein, P.R. (30) 169
Epstein, C.J., see Mikawa, S. (33) 288
Erdmann, J., see Shimron-Abarbanell, D. (29) 387
Escribá, P.V., Ozaita, A., Miralles, A., Reis, D.J. and García-Sevilla, J.A.
Molecular characterization and isolation of a 45-kilodalton imidazoline receptor protein from the rat brain (32) 187
Eve, D.J., see Kingsbury, A.E. (28) 311
Eybalin, M., see Soto-Prior, A. (34) 337
Ezra-Macabee, V., see Matus-Leibovitch, N. (34) 221

F

Fan, L., Young, P.R., Barone, F.C., Feuerstein, G.Z., Smith, D.H. and McIntosh, T.K.
Experimental brain injury induces expression of interleukin-1ß mRNA in the rat brain (30) 125
Farbman, A.I., see Abogadie, F.C. (31) 10
Faull, R.L.M., see Dragunow, M. (30) 393
Faull, R.L.M., see Harrington, K.A. (33) 333
Federoff, H.J., see Chiu, F.-C. (30) 77
Feldman, L.T., see Bloom, D.C. (31) 48
Fenelon, V.S. and Herbison, A.E.
Characterisation of $GABA_A$ receptor gamma subunit expression by magnocellular neurones in rat hypothalamus (34) 45
Feng, L., see Chiu, F.-C. (30) 77
Fernando, L.P., Khan, Z.U. and De Blas, A.L.
Antibodies to the rat β_3 subunit of the γ-aminobutyric $acid_A$ receptors (28) 94
Fernyhough, P., see Brewster, W.J. (29) 131
Ferrara, P., see Rodriguez, M. (29) 369
Feuerstein, C., see Cristina, N. (32) 354
Feuerstein, C., see Mennicken, F. (28) 211
Feuerstein, G.Z., see Fan, L. (30) 125
Fèvre-Montange, M., see Besançon, R. (29) 253
Ffrench-Mullen, J.M.H., see Plata-Salamán, C.R. (33) 72
Fiddes, R.J., see Guennoun, R. (30) 287
Figueiredo, B.C., Plüss, K., Skup, M., Otten, U. and Cuello, A.C.
Acidic FGF induces NGF and its mRNA in the injured neocortex of adult animals (33) 1
Fillion, G., see Gabellec, M.-M. (31) 122
Finch, C.E., see Bertrand, P. (33) 174
Fink, J.S., see Tolentino, P.J. (33) 47
Fischer, S., Sharma, H.S., Karliczek, G.F. and Schaper, W.
Expression of vascular permeability factor/vascular endothelial growth factor in pig cerebral microvascular endothelial cells and its upregulation by adenosine (28) 141
Fletcher, D.L., see Zhang, S.X. (32) 252
Follesa, P. and Ticku, M.K.
Chronic ethanol treatment differentially regulates NMDA receptor subunit mRNA expression in rat brain (29) 99
Foster, O.J.F., see Kingsbury, A.E. (28) 311
Fournel, S., see Lowenstein, P.R. (30) 169
Fox, C.A., see Ruzicka, B.B. (34) 209
French, K.L., see Holmes, M.C. (28) 186
Fujii, M., see Saijoh, K. (30) 301
Fukuda, K., see Ueda, H. (32) 166
Fukushima, N., see Hayashi, C. (33) 347
Fukushima, N., see Ueda, H. (32) 166
Fumagalli, F., see Riva, M.A. (34) 190
Funabashi, T., Brooks, P.J., Kleopoulos, S.P., Grandison, L., Mobbs, C.V. and Pfaff, D.W.
Changes in preproenkephalin messenger RNA level in the rat ventromedial hypothalamus during the estrous cycle (28) 129
Furukawa, H., Kitamoto, T., Tanaka, Y. and Tateishi, J.
New variant prion protein in a Japanese family with Gerstmann-Sträussler syndrome (30) 385
Furuyama, J.-i., see Matsuyama, T. (34) 166

G

Gabellec, M.-M., Griffais, R., Fillion, G. and Haour, F.
Expression of interleukin 1α, interleukin 1β and interleukin 1 receptor antagonist mRNA in mouse brain: regulation by bacterial lipopolysaccharide (LPS) treatment (31) 122
Gall, C., see Vanderklish, P. (32) 25
Gall, C.M., see Murray, K.D. (32) 221
Gall, C.M., see O'Connor, L.T. (33) 277
García-Segura, L.M., see Lafarga, M. (29) 317
García-Sevilla, J.A., see Escribá, P.V. (32) 187
Garlow, S.J. and Ciaranello, R.D.
Transcriptional control of the rat serotonin-2 receptor gene (31) 201
Gaspary, H., Graham, S.H., Sagar, S.M. and Sharp, F.R.
HSP70 heat shock protein induction following global ischemia in the rat (34) 327
Geffard, M., see Okamura, H. (29) 358
Gennarini, G., see Buttiglione, M. (29) 297
George-Hyslop, P.H.St., see Querfurth, H.W. (28) 319

George, J.M., see Wallace, C.S. (32) 211
Gervasi, C. and Szaro, B.G.
The *Xenopus laevis* homologue to the neuronal cyclin-dependent kinase (cdk5) is expressed in embryos by gastrulation (33) 192
Ghetti, B., see Lee, W.-H. (30) 259
Gibson, G.E., see Kim, K.S. (33) 254
Gierdalski, M., see Kaminska, B. (33) 295
Gillespie, A., see Volsen, S.G. (34) 271
Glick, D., see Schwarz, M. (31) 101
Gluckman, P.D., see Beilharz, E.J. (29) 1
Gluckman, P.D., see Beilharz, E.J. (29) 81
Goines, N.D., see Roberson, M.D. (28) 231
Goldstein, M.E., see Parker, E.M. (34) 179
Gonçalves, P.P. and Carvalho, A.P.
Dual role of K^+ and Na^+ on the transport of [^{3}H]-γ-aminobutyric acid by synaptic plasma membrane vesicles (32) 161
Goodman, S.R., see Ma, Y. (30) 176
Goridis, C., see Buttiglione, M. (29) 297
Goto, K., see Ito, Y. (34) 149
Gouézou, M., see Guennoun, R. (30) 287
Graham, S.H., see Gaspary, H. (34) 327
Grandison, L., see Funabashi, T. (28) 129
Grayson, D.R., see Harris, B.T. (28) 338
Greenough, W.T., see Wallace, C.S. (32) 211
Gribkoff, V.K., Hammang, J.P. and Baetge, E.E.
Reduced electrical excitability of PC12 cells deficient in GAP-43: comparison with GAP-43-positive cells (30) 29
Griffais, R., see Gabellec, M.-M. (31) 122
Griffin, S.A., see Scott, A.W. (29) 347
Grima, B., see Zelenika, D. (30) 251
Grundke-Iqbal, I., see Del C. Alonso, A. (31) 194
Guennoun, R., Fiddes, R.J., Gouézou, M., Lombès, M. and Baulieu, E.-E.
A key enzyme in the biosynthesis of neurosteroids, 3β-hydroxysteroid dehydrogenase/Δ^5-Δ^4-isomerase (3β-HSD), is expressed in rat brain (30) 287
Guminski, B.J.M., see Sorg, B.A. (29) 381
Gundersen, C.B., see Mastrogiacomo, A. (28) 12
Gundlach, A.L., see Shen, P.-J. (28) 222
Guo, H., Sekiguchi, M., Tanaka, O., Inoue, T., Shima, H., Nagao, M., Tamura, S. and Abe, H.
Protein phosphatase mRNA expression in Purkinje cells of staggerer and reeler mutant mice (33) 121
Guo, J.-L., see Ohkuma, S. (31) 185
Guo, J.-L., see Ohkuma, S. (34) 347
Gustafson, E.L., see Durkin, M.M. (33) 7
Gutridge, K.L., see Bessert, D.A. (33) 165

H

Hamada, Y., see Higuchi, M. (29) 263
Hamajima, K., see Kawamoto, S. (30) 137
Hamel, C.P., see Soto-Prior, A. (34) 337
Hamill, R.W., see Maguire-Zeiss, K.A. (30) 362
Hammang, J.P., see Gribkoff, V.K. (30) 29
Handa, R.J., see Kus, L. (28) 55
Handa, R.J., see O'Keefe, J.A. (30) 115
Haour, F., see Gabellec, M.-M. (31) 122
Harada, S., see Imaki, T. (32) 261
Harlan, R.E., see Lucas, L.R. (30) 181
Harpold, M.M., see Volsen, S.G. (34) 271
Harrington, K.A., Augood, S.J., Faull, R.L.M., McKenna, P.J. and Emson, P.C.
Dopamine D_1 receptor, D_2 receptor, proenkephalin A and substance P gene expression in the caudate nucleus of control and schizophrenic tissue: a quantitative cellular in situ hybridisation study (33) 333
Harrington, K.A., see Schindler, M. (34) 321
Harris, B.T., Costa, E. and Grayson, D.R.
Exposure of neuronal cultures to K^+ depolarization or to *N*-methyl-D-aspartate increases the transcription of genes encoding the α1 and α5 $GABA_A$ receptor subunits (28) 338
Harris, K.H., see Krukoff, T.L. (34) 99
Harris, R.A., see Valenzuela, C.F. (31) 165
Harrison, P.J., see Eastwood, S.L. (29) 211
Hasegawa, T., see Ohkuma, S. (31) 185
Hata, J.-i., see Shimoda, K. (31) 61
Hata, R., see Matsuyama, T. (34) 166
Hatase, O., see Tomizawa, K. (28) 122
Hattori, S., see Kawamoto, S. (30) 137
Hayakawa, T., see Higuchi, M. (29) 263
Hayakawa, T., see Kohmura, E. (28) 117
Hayakawa, T., see Yuguchi, T. (28) 181
Hayase, Y., see Sasahara, M. (32) 63
Hayashi, C., Ueda, H., Fukushima, N., Katayama, T. and Misu, Y.
Protein kinase C inhibitor potentiates the agonist-induced GTPase activity in COS cell membranes expressing δ-opioid receptor (33) 347
Hazama, F., see Sasahara, M. (32) 63
Heimbeck, G., see Reichmuth, C. (32) 45
Heinemann, S., see Lobron, C. (30) 70
Heller, H.C., see O'Hara, B.F. (28) 239
Heller, K.S., see Duncan, M.J. (32) 181
Hemelt, V.B., see Craviso, G.L. (29) 233
Herbison, A.E. and Spratt, D.P.
Sexually dimorphic expression of calcitonin gene-related peptide (CGRP) mRNA in rat medial preoptic nucleus (34) 143
Herbison, A.E., see Fenelon, V.S. (34) 45
Herman, J.P., see Mennicken, F. (28) 211
Herman, J.P., see Numan, S. (29) 391
Hernandez, M.-C., see Zhu, W. (30) 312
Hersh, L.B., see Li, Y.-P. (30) 106
Hervé, D., Rogard, M. and Lévi-Strauss, M.
Molecular analysis of the multiple Golf α subunit mRNAs in the rat brain (32) 125
Herzog, H., see Tong, Y. (34) 303
Hicks, K.J., see Honkaniemi, J. (28) 157
Hidaka, K., see Matsumoto, M. (29) 157
Hieber, V., see Ueda, H. (32) 151
Higashi, T., Nakai, A., Uemura, Y., Kikuchi, H. and Nagata, K.
Activation of heat shock factor 1 in rat brain during cerebral ischemia or after heat shock (34) 262
Higuchi, H., see Minami, S. (33) 305
Higuchi, M., Kiyama, H., Hayakawa, T., Hamada, Y. and Tsujimoto, Y.
Differential expression of Notch1 and Notch2 in developing and adult mouse brain (29) 263
Hildebrand, B., see Mamot, C. (33) 79
Hiremagalur, B. and Sabban, E.L.
Nicotine elicits changes in expression of adrenal catecholamine biosynthetic enzymes, neuropeptide Y and immediate early genes by injection but not continuous administration (32) 109
Hofbauer, A., see Reichmuth, C. (32) 45
Hoffmann, W., see Probst, J.C. (33) 269
Höllt, V., see Ziółkowska, B. (34) 351
Holmes, M.C., French, K.L. and Seckl, J.R.
Modulation of serotonin and corticosteroid receptor gene expression in the rat hippocampus with circadian rhythm and stress (28) 186
Holstad, S.G., see Wong, E.T. (28) 101
Honda, S., Kagoshima, M., Wanaka, A., Tohyama, M., Matsumoto, K. and Nakamura, T.
Localization and functional coupling of HGF and c-Met/HGF receptor in rat brain: implication as neurotrophic factor (32) 197
Honda, S., Yamamoto, M. and Saito, N.
Immunocytochemical localization of three subtypes of GABA transporter in rat retina (33) 319
Hong, J.-S., see McMillian, M.K. (31) 210
Hong, J.-S., see Pennypacker, K.R. (34) 161
Hong, S.E., see Wong, E.T. (28) 101
Honkaniemi, J., Sagar, S.M., Pyykönen, I., Hicks, K.J. and Sharp, F.R.
Focal brain injury induces multiple immediate early genes encoding zinc finger transcription factors (28) 157
Hooks, M.S., see Sorg, B.A. (29) 381
Houtani, T., see Tsukahara, Y. (29) 376
Howard, M.K., see Lakin, N.D. (28) 47
Hsu, C., Janicki, S. and Monteiro, M.J.
The first intron of the mouse neurofilament light gene (NF-L) increases gene expression (32) 241
Hu, B., see Senatorov, V.V. (30) 87
Hu, X.-J. and Ticku, M.K.
Chronic ethanol treatment upregulates the NMDA receptor function and binding in mammalian cortical neurons (30) 347
Huang, H.-M., see Kim, K.S. (33) 254
Hudson, P.M., see McMillian, M.K. (31) 210
Hudson, P.M., see Pennypacker, K.R. (34) 161
Hughes, P., see MacGibbon, G.A. (34) 294
Hulette, C., see Smith, M.S. (34) 109
Humphrey, P.P.A., see Schindler, M. (34) 321
Humphrey, P.P.A., see Señaris, R.M. (29) 185
Hunsmann, G., see Krasemann, S. (34) 173
Hutchison, J.B., see Raab, H. (34) 333

I

Iacopino, A.M., see Ng, M.C. (32) 82
Ibata, Y., see Kanemasa, K. (32) 55

Ibata, Y., see Kanemasa, K. (34) 309
Ibata, Y., see Okamura, H. (29) 358
Iben, L.G., see Parker, E.M. (34) 179
Ihara, Y., see Oyama, F. (29) 92
Iihara, K., see Sasahara, M. (32) 63
Ikari, H., Zhang, L., Chernak, J.M., Mastrangeli, A., Kato, S., Kuo, H., Crystal, R.G., Ingram, D.K. and Roth, G.S.
Adenovirus-mediated gene transfer of dopamine D_2 receptor cDNA into rat striatum (34) 315
Ikebe, S.-i., Tanaka, M. and Ozawa, T.
Point mutations of mitochondrial genome in Parkinson's disease (28) 281
Ikeda, K., Araki, K., Takayama, C., Inoue, Y., Yagi, T., Aizawa, S. and Mishina, M.
Reduced spontaneous activity of mice defective in the ε4 subunit of the NMDA receptor channel (33) 61
Ikeda, M., see Tsukahara, Y. (29) 376
Ikeshima, H., see Shimoda, K. (31) 61
Imai, Y., Suzuki, Y., Matsui, T., Tohyama, M., Wanaka, A. and Takagi, T.
Cloning of a retinoic acid-induced gene, GT1, in the embryonal carcinoma cell line P19: neuron-specific expression in the mouse brain (31) 1
Imai, Y., see Ishiguro, M. (33) 37
Imai, Y., see Unterwald, E.M. (33) 351
Imaizumi, K., Katoh, T., Tsuda, M., Takagi, T. and Kiyama, H.
GAP-43 mRNA suppression by the ribozyme in PC12 cells and inhibition of evoked dopamine release (32) 338
Imaki, J., Yamashita, K., Yamakawa, A. and Yoshida, K.
Expression of *jun* family genes in rat retinal cells: regulation by light/dark cycle (30) 48
Imaki, T., Xiao-Quan, W., Shibasaki, T., Harada, S., Chikada, N., Takahashi, C., Naruse, M. and Demura, H.
Chlordiazepoxide attenuates stress-induced activation of neurons, corticotropin-releasing factor (CRF) gene transcription and CRF biosynthesis in the paraventricular nucleus (PVN) (32) 261
Ince, P.G., see Day, N.C. (31) 17
Ince, P.G., see Volsen, S.G. (34) 271
Ingersoll, R., see Donovan, D.M. (30) 327
Ingram, D.K., see Ikari, H. (34) 315
Inoue, K., Sakaitani, M., Shimada, S. and Tohyama, M.
Cloning and expression of a bovine glutamate transporter (28) 343
Inoue, T., see Guo, H. (33) 121
Inoue, Y., see Ikeda, K. (33) 61
Inouye, S.-I.T., see Okamura, H. (29) 358
Iqbal, K., see Del C. Alonso, A. (31) 194
Isackson, P.J., see Murray, K.D. (32) 221
Isenberg, K.E., see Wong, E.T. (28) 101
Ishiguro, H., Kim, K.-S. and Joh, T.H.
Identification of a negative regulatory element in the 5′-flanking region of the human dopamine β-hydroxylase gene (34) 251
Ishiguro, M., Imai, Y. and Kohsaka, S.
Expression and distribution of low density lipoprotein receptor-related protein mRNA in the rat central nervous system (33) 37
Ishii, D.N., see Pu, S.-F. (34) 18
Israel, M.A., see Zhu, W. (30) 312
Itano, T., see Tomizawa, K. (28) 122
Ito, Y., Goto, K. and Kondo, H.
Localization of mRNA for phosphatidylinositol 3-kinase in brain of developing and mature rats (34) 149
Itoh, N., see Miyake, A. (31) 95
Itoh, N., see Tagashira, S. (30) 233
Iwata, E., see Asanuma, M. (33) 29
Izzarelli, D.G., see Parker, E.M. (34) 179

J

Jaber, M., Normand, E. and Bloch, B.
Effect of reserpine treatment on enkephalin mRNA level in the rat striatum: an in situ hybridization study (32) 156
Jacobowitz, D.M., see Strauss, K.I. (28) 81
Jacobs, A.J., Kamholz, J. and Selzer, M.E.
The single lamprey neurofilament subunit (NF-180) lacks multiphosphorylation repeats and is expressed selectively in projection neurons (29) 43
Janicki, S., see Hsu, C. (32) 241
Janovick, J.A., see Jennes, L. (33) 104
Jaynes, C.D., Sheedlo, H.J., Agarwal, N., O'Rourke, K. and Turner, J.E.
Müller and retinal pigment epithelial (RPE) cell expression of NGFI-A and c-*fos* mRNA in response to medium conditioned by the RPE (32) 329
Jenner, P., see Jolkkonen, J. (32) 297
Jennes, L., Brame, B., Centers, A., Janovick, J.A. and Conn, P.M.
Regulation of hippocampal gonadotropin releasing hormone (GnRH) receptor mRNA and GnRH-stimulated inositol phosphate production by gonadal steroid hormones (33) 104
Jeske, A., see Lobron, C. (30) 70
Jhamandas, J.H., see Krukoff, T.L. (34) 99
Jiang, N., see Li, Y. (28) 164
Jiménez, F., see Cerezo, J.R. (29) 245
Jirikowski, G.F., see Probst, J.C. (33) 269
Joh, T., see Kim, K.S. (33) 254
Joh, T.H., see Ishiguro, H. (34) 251
Johnson, H., see Meister, B. (33) 87
Johnston, H.M. and Morris, B.J.
N-Methyl-D-aspartate and nitric oxide regulate the expression of calcium/calmodulin-dependent kinase II in the hippocampal dentate gyrus (31) 141
Jolkkonen, J., Jenner, P. and Marsden, C.D.
L-DOPA reverses altered gene expression of substance P but not enkephalin in the caudate-putamen of common marmosets treated with MPTP (32) 297
Jomary, C., Ahir, A., Agarwal, N., Neal, M.J. and Jones, S.E.
Spatio-temporal pattern of ocular clusterin mRNA expression in the *rd* mouse (29) 172
Jones, E.G., see Murray, K.D. (32) 221
Jones, L.C., see Scammell, J.G. (33) 326
Jones, S.E., see Jomary, C. (29) 172
Jongen-Rêlo, A.L., Docter, G.J., Jonker, A.J. and Voorn, P.
Differential localization of mRNAs encoding dopamine D_1 or D_2 receptors in cholinergic neurons in the core and shell of the rat nucleus accumbens (28) 169
Jonk, L.J.C., see Lopes da Silva, S. (30) 131
Jonker, A.J., see Jongen-Rêlo, A.L. (28) 169
Jope, R.S., see Unlap, T. (28) 193
Jouet, M., Rosenthal, A. and Kenwrick, S.
Exon 2 of the gene for neural cell adhesion molecule L1 is alternatively spliced in B cells (30) 378
Jouvet, A., see Besançon, R. (29) 253
Jucker, M., Mondadori, C., Mohajeri, H., Bartsch, U. and Schachner, M.
Transient upregulation of NCAM mRNA in astrocytes in response to entorhinal cortex lesions and ischemia (28) 149
Jun, X., see Katsura, M. (34) 355
Just, W., see Lahr, G. (33) 179

K

Kaczmarek, L., see Kaminska, B. (33) 295
Kagoshima, M., see Honda, S. (32) 197
Kaibuchi, K., see Miyazaki, M. (28) 29
Kajiwara, K., see Shimizu-Nishikawa, K. (28) 201
Kalivas, P.W., see Sorg, B.A. (29) 381
Kamboj, R.K., see Day, N.C. (31) 17
Kamegai, J., see Minami, S. (33) 305
Kamholz, J., see Jacobs, A.J. (29) 43
Kamii, H., see Mikawa, S. (33) 288
Kaminska, B., Mosieniak, G., Gierdalski, M., Kossut, M. and Kaczmarek, L.
Elevated AP-1 transcription factor DNA binding activity at the onset of functional plasticity during development of rat sensory cortical areas (33) 295
Kamphuis, W. and Lopes da Silva, F.H.
Editing status at the Q/R site of glutamate receptor-A, -B, -5 and -6 subunit mRNA in the hippocampal kindling model of epilepsy (29) 35
Kamphuis, W., De Rijk, T.C. and Lopes da Silva, F.H.
Expression of $GABA_A$ receptor subunit mRNAs in hippocampal pyramidal and granular neurons in the kindling model of epileptogenesis: an in situ hybridization study (31) 33
Kanemasa, K., Okamura, H., Kodama, T. and Ibata, Y.
Induction of VGF mRNA in neurons of the rat nucleus tractus solitarius and the dorsal motor nucleus of vagus in duodenal ulceration by cysteamine (32) 55

Kanemasa, K., Okamura, H., Kodama, T., Kashima, K. and Ibata, Y.
Time course of the induction of VGF mRNA in the dorsal vagal complex in rats with cysteamine-induced peptic ulcers (34) 309
Karliczek, G.F., see Fischer, S. (28) 141
Kashiba, H., Noguchi, K., Ueda, Y. and Senba, E.
Coexpression of trk family members and low-affinity neurotrophin receptors in rat dorsal root ganglion neurons (30) 158
Kashima, K., see Kanemasa, K. (34) 309
Kasof, G.M., Mahanty, N.K., Pozzo Miller, L.D., Curran, T., Connor, J.A. and Morgan, J.I.
Spontaneous and evoked glutamate signalling influences Fos-lacZ expression and pyramidal cell death in hippocampal slice cultures from transgenic rats (34) 197
Katagiri, T., see Sakimura, K. (28) 19
Katayama, T., see Hayashi, C. (33) 347
Kato, S., see Ikari, H. (34) 315
Katoh, T., see Imaizumi, K. (32) 338
Katsuki, M., see Shimizu-Nishikawa, K. (28) 201
Katsura, M., Ohkuma, S., Jun, X., Tsujimura, A. and Kuriyama, K.
Ethanol stimulates diazepam binding inhibitor (DBI) mRNA expression in primary cultured neurons (34) 355
Katsura, M., see Ohkuma, S. (31) 185
Katsura, M., see Ohkuma, S. (34) 347
Kawabata, S., see Baum, L. (34) 1
Kawakami, F., see Okamura, H. (29) 358
Kawamoto, S., Uchino, S., Hattori, S., Hamajima, K., Mishina, M., Nakajima-Iijima, S. and Okuda, K.
Expression and characterization of the ζ1 subunit of the *N*-methyl-D-aspartate (NMDA) receptor channel in a baculovirus system (30) 137
Keiger, C.J., O'Steen, W.K., Brewer, G., Sorci-Thomas, M., Zehnder, T.J. and Rose, J.C.
Cortisol up-regulates corticotropin releasing factor gene expression in the fetal ovine brainstem at 0.70 gestation (32) 75
Kelsoe, J.R., see Richtand, N.M. (33) 97
Kendrick, K.M., see Broad, K.D. (29) 310
Kendrick, K.M., see Vellucci, S.V. (29) 64
Kenwrick, S., see Jouet, M. (30) 378
Kerr, J.E., see Kus, L. (28) 55
Kerwin, R.W., see Eastwood, S.L. (29) 211
Keverne, E.B., see Broad, K.D. (29) 310
Khan, Z.U., see Fernando, L.P. (28) 94
Kikuchi, H., see Higashi, T. (34) 262
Kilduff, T.S., see O'Hara, B.F. (28) 239
Kim, K.-S., see Ishiguro, H. (34) 251
Kim, K.S., Huang, H.-M., Zhang, H., Wagner, J., Joh, T. and Gibson, G.E.
The role of signal transduction systems in mediating cell density dependent changes in tyrosine hydroxylase gene expression (33) 254
Kim, T.-W., Wu, K., Xu, J.-L., McAuliffe, G., Tanzi, R.E., Wasco, W. and Black, I.B.
Selective localization of amyloid precursor-like protein 1 in the cerebral cortex postsynaptic density (32) 36
Kimura, M., see Shimizu-Nishikawa, K. (28) 201
Kingsbury, A.E., Foster, O.J.F., Nisbet, A.P., Cairns, N., Bray, L., Eve, D.J., Lees, A.J. and Marsden, C.D.
Tissue pH as an indicator of mRNA preservation in human post-mortem brain (28) 311
Kinouchi, H., see Mikawa, S. (33) 288
Kiryu, S., Morita, N., Ohno, K., Maeno, H. and Kiyama, H.
Regulation of mRNA expression involved in Ras and PKA signal pathways during rat hypoglossal nerve regeneration (29) 147
Kitamoto, T., see Furukawa, H. (30) 385
Kiyama, H., see Higuchi, M. (29) 263
Kiyama, H., see Imaizumi, K. (32) 338
Kiyama, H., see Kiryu, S. (29) 147
Kiyama, H., see Shida, T. (33) 261
Kiyama, H., see Yao, G.L. (30) 373
Kiyama, H., see Yao, G.L. (32) 308
Klagges, B., see Reichmuth, C. (32) 45
Kleopoulos, S.P., see Funabashi, T. (28) 129
Klinz, S.G., see Shock, L.P. (28) 110
Kluttz, B.W., Vrana, K.E., Dworkin, S.I. and Childers, S.R.
Effects of morphine on forskolin-stimulated pro-enkephalin mRNA levels in rat striatum: a model for acute and chronic opioid actions in brain (32) 313
Kluttz, B.W., see Vrana, S.L. (34) 127
Kobayashi, T., see Saijoh, K. (30) 301
Kodama, T., see Kanemasa, K. (32) 55
Kodama, T., see Kanemasa, K. (34) 309
Kohmura, E., Yuguchi, T., Yamada, K., Sakaguchi, T., Wanaka, A. and Hayakawa, T.
Expression of c-*fos* mRNA after cortical ablation in rat brain is modulated by basic fibroblast growth factor (bFGF) and the NMDA receptor is involved in c-*fos* expression (28) 117
Kohmura, E., see Yuguchi, T. (28) 181
Kohno, H., see Miyazaki, M. (28) 29
Kohsaka, S., see Ishiguro, M. (33) 37
Koistinaho, J. and Sagar, S.M.
Light-induced c-*fos* expression in amacrine cells in the rabbit retina (29) 53
Kokotos Leonardi, E.T., see Ueda, S. (29) 365
Kondo, E., see Shida, T. (33) 261
Kondo, E., see Tomizawa, K. (28) 122
Kondo, H., see Ito, Y. (34) 149
Kondo, H., see Sakagami, H. (33) 185
Kondo, H., see Tanaka, O. (30) 1
Kondo, Y., see Asanuma, M. (33) 29
Kossut, M., see Kaminska, B. (33) 295
Koyama, M., see Baum, L. (34) 1
Krasemann, S., Zerr, I., Weber, T., Poser, S., Kretzschmar, H., Hunsmann, G. and Bodemer, W.
Prion disease associated with a novel nine octapeptide repeat insertion in the PRNP gene (34) 173
Kreek, M.J., see Unterwald, E.M. (33) 351
Kretzschmar, H., see Krasemann, S. (34) 173
Kroesen, S., see Tschernitz, C. (31) 131
Kruijer, W., see Lopes da Silva, S. (30) 131
Krukoff, T.L., MacTavish, D., Harris, K.H. and Jhamandas, J.H.
Changes in blood volume and pressure induce c-*fos* expression in brainstem neurons that project to the paraventricular nucleus of the hypothalamus (34) 99
Kuczenski, R., see Richtand, N.M. (33) 97
Kudo, Y., see Sakimura, K. (28) 19
Kumar, K. and Wu, X.-l.
Expression of β-actin and α-tubulin mRNA in gerbil brain following transient ischemia and reperfusion up to 1 month (30) 149
Kuo, H., see Ikari, H. (34) 315
Kuo, W.-L., see Zhu, W. (30) 312
Kuriyama, K., see Katsura, M. (34) 355
Kuriyama, K., see Ohkuma, S. (31) 185
Kuriyama, K., see Ohkuma, S. (34) 347
Kurschner, C. and Morgan, J.I.
The cellular prion protein (PrP) selectively binds to Bcl-2 in the yeast two-hybrid system (30) 165
Kus, L., Handa, R.J., Sanderson, J.J., Kerr, J.E. and Beitz, A.J.
Distribution of NMDAR1 receptor subunit mRNA and [^{125}I]MK-801 binding in the hypothalamus of intact, castrate and castrate-DHTP treated male rats (28) 55
Kushiya, E., see Sakimura, K. (28) 19

L

Lafarga, M., García-Segura, L.M., Rodriguez, J.R. and Suau, P.
Expression of histone H1° in transcriptionally activated supraoptic neurons (29) 317
Lahiri, D.K. and Nall, C.
Promoter activity of the gene encoding the beta-amyloid precursor protein is up-regulated by growth factors, phorbol ester, retinoic acid and interleukin-1 (32) 233
Lahr, G., Maxson, S.C., Mayer, A., Just, W., Pilgrim, C. and Reisert, I.
Transcription of the Y chromosomal gene, *Sry*, in adult mouse brain (33) 179
Lakin, N.D., Palmer, R., Lillycrop, K.A., Howard, M.K., Burke, L.C., Thomas, N.S.B. and Latchman, D.S.
Down regulation of the octamer binding protein Oct-1 during growth arrest and differentiation of a neuronal cell line (28) 47
Lamperti, E.D., see Tolentino, P.J. (33) 47
Laprade, N. and Soghomonian, J.-J.
Differential regulation of mRNA levels encoding for the two isoforms of glutamate decarboxylase (GAD65 and GAD67) by

dopamine receptors in the rat striatum (34) 65
Laslop, A., see Tschernitz, C. (31) 131
Latchman, D.S., see Lakin, N.D. (28) 47
Laurie, D.J., Putzke, J., Zieglgänsberger, W., Seeburg, P.H. and Tölle, T.R.
The distribution of splice variants of the NMDAR1 subunit mRNA in adult rat brain (32) 94
Lauterborn, J.C., see O'Connor, L.T. (33) 277
Lavigne-Rebillard, M., see Soto-Prior, A. (34) 337
Law, P.-Y., see Chakrabarti, S. (30) 269
Law, P.Y., see Birnbaum, A.K. (28) 72
Law, P.Y., see Prather, P.L. (29) 336
Lawlor, P., see Dragunow, M. (32) 279
Lawlor, P., see Williams, J. (28) 87
Lawlor, P.A., see MacGibbon, G.A. (34) 294
Lawson, S.N., see Ninkina, N.N. (33) 233
Leah, J., see Williams, J. (28) 87
Ledoux, M., see Angulo, J.A. (29) 15
Lee, K., see Weaver, D.R. (28) 296
Lee, L., see Schulz, N.T. (28) 273
Lee, M.J., see Saijoh, K. (30) 301
Lee, W.-H., Wang, G.-M., Lo, T., Triarhou, L.C. and Ghetti, B.
Altered IGFBP5 gene expression in the cerebellar external germinal layer of weaver mutant mice (30) 259
Lees, A.J., see Kingsbury, A.E. (28) 311
Le Fur, G., see Rodriguez, M. (29) 369
Le Moal, M., see Mennicken, F. (28) 211
Lenkei, Z., Corvol, P. and Llorens-Cortes, C.
Comparative expression of vasopressin and angiotensin type-1 receptor mRNA in rat hypothalamic nuclei: a double in situ hybridization study (34) 135
Lenkei, Z., Corvol, P. and Llorens-Cortes, C.
The angiotensin receptor subtype AT1A predominates in rat forebrain areas involved in blood pressure, body fluid homeostasis and neuroendocrine control (30) 53
Lennard, D.E., see Pennypacker, K.R. (34) 161
Lennon, D.J., see McKinley, D.D. (28) 175
Lévi-Strauss, M., see Hervé, D. (32) 125
Li, S.-H., see Nucifora, Jr., F.C. (32) 291
Li, Y., Chopp, M., Jiang, N. and Zaloga, C.
In situ detection of DNA fragmentation after focal cerebral ischemia in mice (28) 164
Li, Y., see O'Keefe, J.A. (30) 115
Li, Y.-P., Baskin, F., Davis, R., Wu, D. and Hersh, L.B.
A cell type-specific silencer in the human choline acetyltransferase gene requiring two distinct and interactive E boxes (30) 106
Li, Z.W., see Maguire-Zeiss, K.A. (30) 362
Liao, J., see Schwarz, M. (31) 101
Liberini, P., see Pizzi, M. (34) 38
Light, A.R., see Smith, M.S. (34) 109
Lillycrop, K.A., see Lakin, N.D. (28) 47
Lin, P.X., see Sheng, H.Z. (30) 196
Lindefors, N., see Zachrisson, O. (31) 71
Lindstrom, J., see Didier, M. (30) 17
Linnik, M.D., Miller, J.A., Sprinkle-Cavallo, J., Mason, P.J., Thompson, F.Y., Montgomery, L.R. and Schroeder, K.K.
Apoptotic DNA fragmentation in the rat cerebral cortex induced by permanent middle cerebral artery occlusion (32) 116
Listowsky, I., see Abramovitz, M. (28) 37
Liu-Chen, L.Y., see Prather, P.L. (29) 336
Llorens-Cortes, C., see Lenkei, Z. (30) 53
Llorens-Cortes, C., see Lenkei, Z. (34) 135
Lo, T., see Lee, W.-H. (30) 259
Lobron, C., Wevers, A., Dämgen, K., Jeske, A., Rontal, D., Birtsch, Ch., Heinemann, S., Reinhardt, S., Maelicke, A. and Schröder, H.
Cellular distribution in the rat telencephalon of mRNAs encoding for the α3 and α4 subunits of the nicotinic acetylcholine receptor (30) 70
Lodge, D., see Day, N.C. (31) 17
Lodge, D., see Volsen, S.G. (34) 271
Loewenstein-Lichtenstein, Y., see Schwarz, M. (31) 101
Loh, H.H., see Chakrabarti, S. (30) 269
Loh, H.H., see Prather, P.L. (29) 336
Loh, H.H., see Wick, M.J. (32) 171
Loh, H.H., see Wick, M.J. (32) 342
Lombès, M., see Guennoun, R. (30) 287
Lombroso, P.J., see Sharma, E. (32) 87
Lopes da Silva, F.H., see Kamphuis, W. (29) 35
Lopes da Silva, F.H., see Kamphuis, W. (31) 33
Lopes da Silva, S., Cox, J.J., Jonk, L.J.C., Kruijer, W. and Burbach, J.P.H.
Localization of transcripts of the related nuclear orphan receptors COUP-TF I and ARP-1 in the adult mouse brain (30) 131
Lowenstein, P.R., Fournel, S., Bain, D., Tomasec, P., Clissold, P.M., Castro, M.G. and Epstein, A.L.
Simultaneous detection of amplicon and HSV-1 helper encoded proteins reveals that neurons and astrocytoma cells do express amplicon-borne transgenes in the absence of synthesis of virus immediate early proteins (30) 169
Lu, S.-Y., see Dwyer, B.E. (30) 37
Lucas, L.R. and Harlan, R.E.
Cholinergic regulation of tachykinin- and enkephalin-gene expression in the rat striatum (30) 181
Luckman, S.M. and Cox, H.J.
Expression of inducible cAMP early repressor (ICER) in hypothalamic magnocellular neurons (34) 231
Luedtke, R.R., see Scott, A.W. (29) 347
Lundgren, K.H., see Numan, S. (29) 391
Luque, J.M., Malherbe, P. and Richards, J.G.
Localization of NMDA receptor subunit mRNAs in the rat locus coeruleus (29) 224
Lynch, G., see Vanderklish, P. (32) 25

M

Ma, Y., Zimmer, W.E., Riederer, B.M. and Goodman, S.R.
The complete amino acid sequence for brain β spectrin (β fodrin): relationship to globin sequences (Mol. Brain Res. 18 (1993) 87–99) (BRESM 70581) (30) 176
MacGibbon, G.A., Lawlor, P.A., Hughes, P., Young, D. and Dragunow, M.
Differential expression of inducible transcription factors in basal ganglia neurons (34) 294
Machida, C.A., see Choi, W.S. (31) 86
Machu, T.K., see Valenzuela, C.F. (31) 165
Mack, K.J., Yi, S.-D., Chang, S., Millan, N. and Mack, P.
NGFI-C expression is affected by physiological stimulation and seizures in the somatosensory cortex (29) 140
Mack, P., see Mack, K.J. (29) 140
MacTavish, D., see Krukoff, T.L. (34) 99
Madhok, T.C., Matta, S.G. and Sharp, B.M.
Nicotine regulates nicotinic cholinergic receptors and subunit mRNAs in PC 12 cells through protein kinase A (32) 143
Maejima, K., see Shimoda, K. (31) 61
Maekawa, K., see Minami, M. (30) 203
Maelicke, A., see Lobron, C. (30) 70
Maeno, H., see Kiryu, S. (29) 147
Magner, M., see Shiromani, P.J. (29) 163
Maguire-Zeiss, K.A., Li, Z.W., Shimoda, L.M.N. and Hamill, R.W.
Calbindin D28k mRNA in hippocampus, superior temporal gyrus and cerebellum: comparison between control and Alzheimer disease subjects (30) 362
Mahanty, N.K., see Kasof, G.M. (34) 197
Mahle, C.D., see Parker, E.M. (34) 179
Maidment, N.T., see Bloom, D.C. (31) 48
Malchiodi, E.L., see Eakin, T.J. (29) 71
Malherbe, P., see Luque, J.M. (29) 224
Mamot, C., Hildebrand, B., Olenik, C., Simmet, T. and Meyer, D.K.
Evidence for the involvement of 5-lipoxygenase products in the regulation of the expression of the proenkephalin gene in cultured astroglial cells (33) 79
Maness, P.F., see Shock, L.P. (28) 110
Manier, M., see Cristina, N. (32) 354
Margolis, F.L., see Abogadie, F.C. (31) 10
Marsden, C.D., see Jolkkonen, J. (32) 297
Marsden, C.D., see Kingsbury, A.E. (28) 311
Marshak, D.R., see Peña, L.A. (34) 118
Maruyama, K., see Baum, L. (34) 1
Mason-Parker, S.E., see Abraham, W.C. (30) 367
Mason, P.J., see Linnik, M.D. (32) 116
Mason, S., see Williams, J. (28) 87
Mastrangeli, A., see Ikari, H. (34) 315
Mastrogiacomo, A. and Gundersen, C.B.
The nucleotide and deduced amino acid sequence of a rat cysteine string protein (28) 12
Mathé, A.A., see Zachrisson, O. (31) 71
Matsui, H., see Tomizawa, K. (28) 122
Matsui, T., Sashihara, S., Oh, Y. and Waxman, S.G.
An orphan nuclear receptor, mRORα, and its spatial expression in adult mouse brain (33) 217
Matsui, T., see Imai, Y. (31) 1
Matsumoto, K., see Honda, S. (32) 197

Matsumoto, K., see Mori, T. (29) 325
Matsumoto, K., see Mori, T. (34) 154
Matsumoto, M., Hidaka, K., Tada, S., Tasaki, Y. and Yamaguchi, T.
Full-length cDNA cloning and distribution of human dopamine D4 receptor (29) 157
Matsuo, K., see Shimoda, K. (31) 61
Matsuura, H., see Miyakawa, T. (28) 349
Matsuyama, T., Hata, R., Yamamoto, Y., Tagaya, M., Akita, H., Uno, H., Wanaka, A., Furuyama, J.-i. and Sugita, M.
Localization of Fas antigen mRNA induced in postischemic murine forebrain by in situ hybridization (34) 166
Matta, S.G., see Madhok, T.C. (32) 143
Matus-Leibovitch, N., Ezra-Macabee, V., Saya, D., Attali, B., Avidor-Reiss, T., Barg, J. and Vogel, Z.
Increased expression of synapsin I mRNA in defined areas of the rat central nervous system following chronic morphine treatment (34) 221
Maxson, S.C., see Lahr, G. (33) 179
Mayer, A., see Lahr, G. (33) 179
McAuliffe, G., see Kim, T.-W. (32) 36
McCormack, A.L., see Volsen, S.G. (34) 271
McDonald, B., see Eastwood, S.L. (29) 211
McEwen, B., see Riftina, F. (33) 201
McEwen, B.S., see Angulo, J.A. (29) 15
McEwen, B.S., see Orchinik, M. (34) 29
McEwen, B.S., see Pompei, P. (33) 209
McEwen, B.S., see Watanabe, Y. (28) 135
McEwen, B.S., see Watanabe, Y. (32) 176
McGinn, T.M., see Prather, P.L. (29) 336
McGinty, J.F., see Daunais, J.B. (29) 201
McIntosh, T.K., see Fan, L. (30) 125
McKenna, P.J., see Harrington, K.A. (33) 333
McKernan, R.M., see Valenzuela, C.F. (31) 165
McKinley, D.D., Lennon, D.J. and Carter, D.B.
Cloning, sequence analysis and expression of two forms of mRNA coding for the human β_2 subunit of the $GABA_A$ receptor (28) 175
McKittrick, C.R., see Watanabe, Y. (32) 176
McLaughlin, P.J., see Zagon, I.S. (33) 111
McManaman, J.L., see Valenzuela, C.F. (31) 165
McMillian, M.K., Hudson, P.M., Simmons, K.L., Dreyer, D.A., Hong, J.-S. and Pennypacker, K.R.
Acute repeated nicotine injections increase enkephalin and decrease AP-1 DNA binding activity in rat adrenal medulla (31) 210
McMillian, M.K., see Pennypacker, K.R. (34) 161
McNamara, R.K. and Routtenberg, A.
NMDA receptor blockade prevents kainate induction of protein F1/GAP-43 mRNA in hippocampal granule cells and subsequent mossy fiber sprouting in the rat (33) 22
Meberg, P.J., Valcourt, E.G. and Routtenberg, A.
Protein F1/GAP-43 and PKC gene expression patterns in hippocampus are altered 1–2 h after LTP (34) 343
Mehta, V. and Namboodiri, M.A.A.
N-Acetylaspartate as an acetyl source in the nervous system (31) 151
Meister, B., Johnson, H. and Ulfhake, B.
Increased expression of serotonin transporter messenger RNA in raphe neurons of the aged rat (33) 87
Memo, M., see Pizzi, M. (34) 38
Meng, F., see Ruzicka, B.B. (34) 209
Mennerick, S.J., see Wong, E.T. (28) 101
Mennicken, F., Savasta, M., Chritin, M., Feuerstein, C., Le Moal, M., Herman, J.P. and Abrous, D.N.
The neonatal lesion of the meso-telencephalic dopaminergic pathway increases intrastriatal D_2 receptor levels and synthesis and this effect is reversed by neonatal dopaminergic rich-graft (28) 211
Meunier, F.-M., see O'Regan, S. (32) 135
Meyer, D.K., see Mamot, C. (33) 79
Micevych, P.E., see Priest, C.A. (28) 251
Micevych, P.E., see Priest, C.A. (28) 61
Mikawa, S., Sharp, F.R., Kamii, H., Kinouchi, H., Epstein, C.J. and Chan, P.H.
Expression of c-*fos* and hsp70 mRNA after traumatic brain injury in transgenic mice overexpressing CuZn-superoxide dismutase (33) 288
Millan, N., see Mack, K.J. (29) 140
Miller, D.J., see Asakura, K. (34) 283
Miller, J.A., see Linnik, M.D. (32) 116
Minami, M., Maekawa, K., Yabuuchi, K. and Satoh, M.
Double in situ hybridization study on coexistence of μ-, δ- and κ-opioid receptor mRNAs with preprotachykinin A mRNA in the rat dorsal root ganglia (30) 203
Minami, M., see Miyake, A. (31) 95
Minami, S., Kamegai, J., Sugihara, H., Suzuki, N., Higuchi, H. and Wakabayashi, I.
Central glucoprivation evoked by administration of 2-deoxy-D-glucose induces expression of the c-*fos* gene in a subpopulation of neuropeptide Y neurons in the rat hypothalamus (33) 305
Minnerath, S.R., see Wick, M.J. (32) 342
Miralles, A., see Escribá, P.V. (32) 187
Mishina, M., see Ikeda, K. (33) 61
Mishina, M., see Kawamoto, S. (30) 137
Misu, Y., see Hayashi, C. (33) 347
Misu, Y., see Ueda, H. (32) 166
Miyakawa, T., Yagi, T., Taniguchi, M., Matsuura, H., Tateishi, K. and Niki, H.
Enhanced susceptibility of audiogenic seizures in Fyn-kinase deficient mice (28) 349
Miyake, A., Minami, M., Satoh, M., Ohta, M. and Itoh, N.
Transient expression of FGF receptor-4 mRNA in the rat cerebellum during postnatal development (31) 95
Miyamae, T., see Ueda, H. (32) 166
Miyamoto, K., see Tomizawa, K. (28) 122
Miyazaki, M., Kaibuchi, K., Shirataki, H., Kohno, H., Ueyama, T., Nishikawa, J. and Takai, Y.
Rabphilin-3A binds to a M_r 115,000 polypeptide in a phosphatidylserine- and Ca^{2+}-dependent manner (28) 29
Mobbs, C.V., see Funabashi, T. (28) 129
Mohajeri, H., see Jucker, M. (28) 149
Mohiuddin, L., see Brewster, W.J. (29) 131
Mondadori, C., see Jucker, M. (28) 149
Moniot, B., see Sans, N. (28) 1
Moniot, B., see Sans, N. (30) 177
Monteiro, M.J., see Hsu, C. (32) 241
Montgomery, L.R., see Linnik, M.D. (32) 116
Moody, C.A., see Sherman, T.G. (29) 285
Morell, P., see Roberson, M.D. (28) 231
Morgan, J.I., see Kasof, G.M. (34) 197
Morgan, J.I., see Kurschner, C. (30) 165
Mori, T., Wanaka, A., Taguchi, A., Matsumoto, K. and Tohyama, M.
Differential expressions of the *eph* family of receptor tyrosine kinase genes (*sek, elk, eck*) in the developing nervous system of the mouse (29) 325
Mori, T., Wanaka, A., Taguchi, A., Matsumoto, K. and Tohyama, M.
Localization of novel receptor tyrosine kinase genes of the eph family, MDK1 and its splicing variant, in the developing mouse nervous system (34) 154
Mori, Y., see Nagano, T. (32) 14
Morita, N., see Kiryu, S. (29) 147
Morrell, J.I., see Wagner, C.K. (33) 127
Morris, B.J., see Johnston, H.M. (31) 141
Mosieniak, G., see Kaminska, B. (33) 295
Moskowitz, P.F. and Oblinger, M.M.
Transcriptional and post-transcriptional mechanisms regulating neurofilament and tubulin gene expression during normal development of the rat brain (30) 211
Moya, F., see Cerezo, J.R. (29) 245
Müller-Schmid, A., see Probst, J.C. (33) 269
Murray, K.D., Gall, C.M., Benson, D.L., Jones, E.G. and Isackson, P.J.
Decreased expression of the alpha subunit of Ca^{2+}/calmodulin-dependent protein kinase type II mRNA in the adult rat CNS following recurrent limbic seizures (32) 221

N

Nagahata, S., see Tomizawa, K. (28) 122
Nagano, T., Sato, M., Mori, Y., Du, Y., Takagi, H. and Tohyama, M.
Regional distribution of messenger RNA encoding the insulin-like growth factor type 2 receptor in the rat lower brainstem (32) 14
Nagao, M., see Guo, H. (33) 121
Nagata, K., see Higashi, T. (34) 262
Nahm, W.K., see Chafetz, R.S. (31) 111
Nakai, A., see Higashi, T. (34) 262
Nakai, Y., see Nakayama, H. (32) 321
Nakajima-Iijima, S., see Kawamoto, S. (30) 137
Nakamura, T., see Honda, S. (32) 197
Nakanishi, S., see Tsukahara, Y. (29) 376
Nakashima, T., see Nakayama, H. (32) 321
Nakayama, H., Shioda, S., Okuda, H., Nakashima, T. and Nakai, Y.

Immunocytochemical localization of nicotinic acetylcholine receptor in rat cerebral cortex (32) 321
Nall, C., see Lahiri, D.K. (32) 233
Namboodiri, M.A.A., see Mehta, V. (31) 151
Nanthakumar, E., see Donovan, D.M. (30) 327
Naruse, M., see Imaki, T. (32) 261
Neal, M.J., see Jomary, C. (29) 172
Nelson, P.G., see Sheng, H.Z. (30) 196
Neuman, T., see Chiaramello, A. (29) 107
Ng, M.C. and Iacopino, A.M.
Quantitative measurement of neuronal calbindin-D_{28k} by radioimmunocytochemistry (32) 82
Nicholson, L.F.B., see Dragunow, M. (30) 393
Niki, H., see Miyakawa, T. (28) 349
Ninkina, N.N., Buchman, V.L., Akopian, A.N., Lawson, S.N., Yamamoto, M., Campbell, E., Corcoran, L. and Wood, J.N.
Nerve growth factor-regulated properties of sensory neurones in Oct-2 null mutant mice (33) 233
Nisbet, A.P., see Kingsbury, A.E. (28) 311
Nishibayashi, S., see Asanuma, M. (33) 29
Nishikawa, J., see Miyazaki, M. (28) 29
Nishimura, R.N., see Dwyer, B.E. (30) 37
Nishiwaki, T., see Okamura, H. (29) 358
Noebels, J.L., see Chafetz, R.S. (31) 111
Noguchi, K., see Kashiba, H. (30) 158
Norgaard-Pedersen, B., see Schwarz, M. (31) 101
Normand, E., see Jaber, M. (32) 156
Nöthen, M.M., see Shimron-Abarbanell, D. (29) 387
Nowak, H.P., see Parker, E.M. (34) 179
Nucifora, Jr., F.C., Li, S.-H., Danoff, S., Ullrich, A. and Ross, C.A.
Molecular cloning of a cDNA for the human inositol 1,4,5-trisphosphate receptor type 1, and the identification of a third alternatively spliced variant (32) 291
Numan, S., Lundgren, K.H., Wright, D.E., Herman, J.P. and Seroogy, K.B.
Increased expression of $5HT_2$ receptor mRNA in rat striatum following 6-OHDA lesions of the adult nigrostriatal pathway (29) 391

O

Oblinger, M.M., see Moskowitz, P.F. (30) 211
O'Connor, L.T., Lauterborn, J.C., Smith, M.A. and Gall, C.M.
Expression of agrin mRNA is altered following seizures in adult rat brain (33) 277
Oda, T., see Bertrand, P. (33) 174
O'Donnell, D., see Poirier, J. (34) 57
Ogawa, N., see Asanuma, M. (33) 29
Ogura, A., see Sakimura, K. (28) 19
Oh, Y., Sashihara, S., Black, J.A. and Waxman, S.G.
Na^+ channel β1 subunit mRNA: differential expression in rat spinal sensory neurons (30) 357
Oh, Y., see Matsui, T. (33) 217
Oh, Y., see Sashihara, S. (34) 239
Oh, Y., see Zur, K.B. (30) 97
O'Hara, B.F., Andretic, R., Heller, H.C., Carter, D.B. and Kilduff, T.S.
$GABA_A$, $GABA_C$, and NMDA receptor subunit expression in the suprachiasmatic nucleus and other brain regions (28) 239
Ohkuma, S., Katsura, M., Chen, D.-Z., Guo, J.-L. and Kuriyama, K.
Hydroxyl radical scavengers enhance nitric oxide-evoked acetylcholine release from mouse cerebral cortical neurons (34) 347
Ohkuma, S., Katsura, M., Guo, J.-L., Hasegawa, T. and Kuriyama, K.
Involvement of peroxynitrite in *N*-methyl-D-aspartate- and sodium nitroprusside-induced release of acetylcholine from mouse cerebral cortical neurons (31) 185
Ohkuma, S., see Katsura, M. (34) 355
Ohkura, S., see Vellucci, S.V. (29) 64
Ohno, K., see Kiryu, S. (29) 147
Ohta, M., see Miyake, A. (31) 95
Ohta, M., see Tagashira, S. (30) 233
Ojika, K., see Tohdoh, N. (30) 381
Okamura, H., Kawakami, F., Tamada, Y., Geffard, M., Nishiwaki, T., Ibata, Y. and Inouye, S.-I.T.
Circadian change of VIP mRNA in the rat suprachiasmatic nucleus following *p*-chlorophenylalanine (PCPA) treatment in constant darkness (29) 358
Okamura, H., see Kanemasa, K. (32) 55
Okamura, H., see Kanemasa, K. (34) 309
O'Keefe, J.A., Li, Y., Burgess, L.H. and Handa, R.J.
Estrogen receptor mRNA alterations in the developing rat hippocampus (30) 115
Okuda, H., see Nakayama, H. (32) 321
Okuda, K., see Kawamoto, S. (30) 137
Olenik, C., see Mamot, C. (33) 79
Olsen, R.W., see Valenzuela, C.F. (31) 165
Orchinik, M., Weiland, N.G. and McEwen, B.S.
Chronic exposure to stress levels of corticosterone alters $GABA_A$ receptor subunit mRNA levels in rat hippocampus (34) 29
Orchinik, M., see Weiland, N.G. (32) 271
O'Regan, S., Birman, S. and Meunier, F.-M.
Regulation of hemicholinium-3 sensitive choline uptake in *Xenopus laevis* oocytes by the second C2 domain of synaptotagmin (32) 135
O'Rourke, K., see Jaynes, C.D. (32) 329
O'Steen, W.K., see Keiger, C.J. (32) 75
Otsuki, H., see Yuguchi, T. (28) 181
Otten, U., see Figueiredo, B.C. (33) 1
Otten, U., see Scully, J.L. (31) 158
Oyama, F., Shimada, H., Oyama, R. and Ihara, Y.
Apolipoprotein E genotype, Alzheimer's pathologies and related gene expression in the aged population (29) 92
Oyama, R., see Oyama, F. (29) 92
Ozaita, A., see Escribá, P.V. (32) 187
Ozaki, K., see Tagashira, S. (30) 233
Ozawa, T., see Ikebe, S.-i. (28) 281

P

Padin, C., see Chiu, F.-C. (30) 77
Page, S.O., see Smith, M.S. (34) 109
Palmer, R., see Lakin, N.D. (28) 47
Parker, E.M., Izzarelli, D.G., Nowak, H.P., Mahle, C.D., Iben, L.G., Wang, J. and Goldstein, M.E.
Cloning and characterization of the rat GALR1 galanin receptor from Rin14B insulinoma cells (34) 179
Parrott, R.F., see Vellucci, S.V. (29) 64
Pasinetti, G.M., see Bertrand, P. (33) 174
Paulhiac, C.I., see Schulz, N.T. (28) 273
Pease, L.R., see Asakura, K. (34) 283
Peña, L.A., Brecher, C.W. and Marshak, D.R.
β-Amyloid regulates gene expression of glial trophic substance S100β in C6 glioma and primary astrocyte cultures (34) 118
Pennypacker, K.R., Lennard, D.E., Hudson, P.M., Hong, J.-S. and McMillian, M.K.
Basal expression of 35 kDa fos-related antigen in olfactory bulb (34) 161
Pennypacker, K.R., see McMillian, M.K. (31) 210
Perry, M.P., see Donovan, D.M. (30) 327
Pessac, B., see Zelenika, D. (30) 251
Pfaff, D.W., see Funabashi, T. (28) 129
Pflugfelder, G.O., see Reichmuth, C. (32) 45
Pilgrim, C., see Lahr, G. (33) 179
Pilgrim, C., see Raab, H. (33) 157
Pilgrim, C., see Raab, H. (34) 333
Piosik, P.A., Van Groenigen, M., Ponne, N.J., Bolhuis, P.A. and Baas, F.
RC3/neurogranin structure and expression in the caprine brain in relation to congenital hypothyroidism (29) 119
Pizzi, M., Valerio, A., Belloni, M., Arrighi, V., Alberici, A., Liberini, P., Spano, P.F. and Memo, M.
Differential expression of fetal and mature tau isoforms in primary cultures of rat cerebellar granule cells during differentiation in vitro (34) 38
Plata-Salamán, C.R., Wilson, C.D., Sonti, G., Borkoski, J.P. and Ffrench-Mullen, J.M.H.
Antisense oligodeoxynucleotides to G-protein α-subunit subclasses identify a transductional requirement for the modulation of normal feeding dependent on $G\alpha_{OA}$ subunit (33) 72
Plüss, K., see Figueiredo, B.C. (33) 1
Pogulis, R.J., see Asakura, K. (34) 283
Poirier, J., Beffert, U., Dea, D., Alonso, R., O'Donnell, D. and Boksa, P.
Increased levels of statin, a marker of cell cycle arrest, in response to hippocampal neuronal injury (34) 57
Poirier, J., see Bertrand, P. (33) 174

Pompei, P., Riftina, F. and McEwen, B.S.
Effect of adrenal steroids on preproneurokinin-A gene expression in discrete regions of the rat brain (33) 209
Pompei, P., see Riftina, F. (33) 201
Ponne, N.J., see Piosik, P.A. (29) 119
Poser, S., see Krasemann, S. (34) 173
Pozzo Miller, L.D., see Kasof, G.M. (34) 197
Prather, P.L., McGinn, T.M., Claude, P.A., Liu-Chen, L.Y., Loh, H.H. and Law, P.Y.
Properties of a κ-opioid receptor expressed in CHO cells: interaction with multiple G-proteins is not specific for any individual G_α subunit and is similar to that of other opioid receptors (29) 336
Preston, K., see Dragunow, M. (32) 279
Priest, C.A., Eckersell, C.B. and Micevych, P.E.
Estrogen regulates preproenkephalin-A mRNA levels in the rat ventromedial nucleus: temporal and cellular aspects (28) 251
Priest, C.A., Vink, K.L. and Micevych, P.E.
Temporal regulation by estrogen of β-preprotachykinin mRNA expression in the rat ventromedial nucleus of the hypothalamus (28) 61
Probst, J.C., Skutella, T., Müller-Schmid, A., Jirikowski, G.F. and Hoffmann, W.
Molecular and cellular analysis of rP1.B in the rat hypothalamus: In situ hybridization and immunohistochemistry of a new P-domain neuropeptide (33) 269
Propping, P., see Shimron-Abarbanell, D. (29) 387
Pu, S.-F., Zhuang, H.-X. and Ishii, D.N.
Differential spatio-temporal expression of the insulin-like growth factor genes in regenerating sciatic nerve (34) 18
Puelles, L., see Zhu, W. (30) 312
Putzke, J., see Laurie, D.J. (32) 94
Pyykönen, I., see Honkaniemi, J. (28) 157

Q

Querfurth, H.W., Wijsman, E.M., George-Hyslop, P.H.St. and Selkoe, D.J.
βAPP mRNA transcription is increased in cultured fibroblasts from the familial Alzheimer's disease-1 family (28) 319
Quirion, R., see Tong, Y. (34) 303

R

Raab, H., Beyer, C., Wozniak, A., Hutchison, J.B., Pilgrim, C. and Reisert, I.
Ontogeny of aromatase messenger ribonucleic acid and aromatase activity in the rat midbrain (34) 333
Raab, H., Pilgrim, C. and Reisert, I.
Effects of sex and estrogen on tyrosine hydroxylase mRNA in cultured embryonic rat mesencephalon (33) 157
Racagni, G., see Riva, M.A. (34) 190
Ramakrishnan, S., see Wick, M.J. (32) 342
Rassart, E., see Séguin, D. (30) 242
Raymond, J., see Sans, N. (28) 1
Raymond, J., see Sans, N. (30) 177
Reichmuth, C., Becker, S., Benz, M., Debel, K., Reisch, D., Heimbeck, G., Hofbauer, A., Klagges, B., Pflugfelder, G.O. and Buchner, E.
The *sap*47 gene of *Drosophila melanogaster* codes for a novel conserved neuronal protein associated with synaptic terminals (32) 45
Reinhardt, S., see Lobron, C. (30) 70
Reis, D.J., see Escribá, P.V. (32) 187
Reisch, D., see Reichmuth, C. (32) 45
Reisert, I., see Lahr, G. (33) 179
Reisert, I., see Raab, H. (33) 157
Reisert, I., see Raab, H. (34) 333
Renard, N., see Soto-Prior, A. (34) 337
Reppert, S.M., see Weaver, D.R. (33) 136
Reutter, M.A., see Scammell, J.G. (33) 326
Richards, J.G., see Luque, J.M. (29) 224
Richelson, E., see Yamada, M. (33) 343
Richtand, N.M., Kelsoe, J.R., Segal, D.S. and Kuczenski, R.
Regional quantification of D1, D2, and D3 dopamine receptor mRNA in rat brain using a ribonuclease protection assay (33) 97
Riederer, B.M., see Ma, Y. (30) 176
Riftina, F., Angulo, J., Pompei, P. and McEwen, B.
Regulation of angiotensinogen gene expression in the rat forebrain by adrenal steroids and relation to salt appetite (33) 201
Riftina, F., see Pompei, P. (33) 209
Rigolet, M., see Zhu, W. (30) 312
Ripoll, C., see Soto-Prior, A. (34) 337
Riva, M.A., Fumagalli, F., Blom, J.M.C., Donati, E. and Racagni, G.
Adrenalectomy reduces FGF-1 and FGF-2 gene expression in specific rat brain regions and differently affects their induction by seizures (34) 190
Roberson, M.D., Toews, A.D., Bouldin, T.W., Weaver, J., Goines, N.D. and Morell, P.
NGFR-mRNA expression in sciatic nerve: a sensitive indicator of early stages of axonopathy (28) 231
Robertson, H.A., see Chiasson, B.J. (29) 191
Robinson, G.A.
Axotomy-induced regulation of c-Jun expression in regenerating rat retinal ganglion cells (30) 61
Rodriguez, J.R., see Lafarga, M. (29) 317
Rodriguez, M., Carillon, C., Coquerel, A., Le Fur, G., Ferrara, P., Caput, D. and Shire, D.
Evidence for the presence of β3-adrenergic receptor mRNA in the human brain (29) 369
Rodriguez, M., see Asakura, K. (34) 283
Rogard, M., see Hervé, D. (32) 125
Ronnekleiv, O.K., see Choi, W.S. (31) 86
Rontal, D., see Lobron, C. (30) 70
Rose, J.C., see Keiger, C.J. (32) 75
Rosenthal, A., see Jouet, M. (30) 378
Ross, C.A., see Nucifora, Jr., F.C. (32) 291
Roth, G.S., see Ikari, H. (34) 315
Routtenberg, A., see McNamara, R.K. (33) 22
Routtenberg, A., see Meberg, P.J. (34) 343
Roy, S., see Wick, M.J. (32) 342
Rubenfeld, J.M., see Unterwald, E.M. (33) 351
Rubenstein, J.L.R., see Zhu, W. (30) 312
Rubinow, D.R., see Chen, H. (32) 348
Ruzicka, B.B., Fox, C.A., Thompson, R.C., Meng, F., Watson, S.J. and Akil, H.
Primary astroglial cultures derived from several rat brain regions differentially express μ, δ and κ opioid receptor mRNA (34) 209

S

Sabban, E.L., see Hiremagalur, B. (32) 109
Sagar, S.M., see Gaspary, H. (34) 327
Sagar, S.M., see Honkaniemi, J. (28) 157
Sagar, S.M., see Koistinaho, J. (29) 53
Saido, T.C., see Vanderklish, P. (32) 25
Saijoh, K., Saito, N., Lee, M.J., Fujii, M., Kobayashi, T. and Sumino, K.
Molecular cloning of cDNA encoding a bovine selenoprotein P-like protein containing 12 selenocysteines and a (His-Pro) rich domain insertion, and its regional expression (30) 301
Saito, N., see Honda, S. (33) 319
Saito, N., see Saijoh, K. (30) 301
Saitoh, T., see Baum, L. (34) 1
Sakagami, H., Sawamura, Y. and Kondo, H.
Synchronous patchy pattern of gene expression for adenylyl cyclase and phosphodiesterase but discrete expression for G-protein in developing rat striatum (33) 185
Sakagami, H., see Tanaka, O. (30) 1
Sakaguchi, T., see Kohmura, E. (28) 117
Sakai, R.R., see Watanabe, Y. (32) 176
Sakaitani, M., see Inoue, K. (28) 343
Sakaki, T., see Yuguchi, T. (28) 181
Sakimura, K., Kushiya, E., Ogura, A., Kudo, Y., Katagiri, T. and Takahashi, Y.
Upstream and intron regulatory regions for expression of the rat neuron-specific enolase gene (28) 19
Sanders-Bush, E., see Backstrom, J.R. (33) 311
Sanderson, J.J., see Kus, L. (28) 55
Sans, N., Moniot, B. and Raymond, J.
Distribution of calretinin mRNA in the vestibular nuclei of rat and guinea pig and the effects of unilateral labyrinthectomy: a non-radioactive in situ hybridization study (28) 1
Sans, N., Moniot, B. and Raymond, J.
Distribution of calretinin mRNA in the vestibular nuclei of rat and guinea pig and

the effects of unilateral layrinthectomy: a non-radioactive in situ hybridization study (Mol. Brain Res. 28 (1995) 1 –11) BRESM 70917) (30) 177
Sasahara, M., Sato, H., Iihara, K., Wang, J., Chue, C.-H., Takayama, S., Hayase, Y. and Hazama, F.
Expression of platelet-derived growth factor B-chain in the mature rat brain and pituitary gland (32) 63
Sasaki, Y., see Ueda, H. (32) 166
Sashihara, S., Oh, Y., Black, J.A. and Waxman, S.G.
Na^+ channel β1 subunit mRNA expression in developing rat central nervous system (34) 239
Sashihara, S., see Matsui, T. (33) 217
Sashihara, S., see Oh, Y. (30) 357
Sato, H., see Sasahara, M. (32) 63
Sato, M., see Nagano, T. (32) 14
Satoh, M., see Minami, M. (30) 203
Satoh, M., see Miyake, A. (31) 95
Savasta, M., see Mennicken, F. (28) 211
Sawamura, Y., see Sakagami, H. (33) 185
Saya, D., see Matus-Leibovitch, N. (34) 221
Scammell, J.G., Sumners, C., Reutter, M.A., Valentine, D.L. and Jones, L.C.
Regulation of secretogranin II mRNA in rat neuronal cultures (33) 326
Schachner, M., see Jucker, M. (28) 149
Schambra, U.B., see Smith, M.S. (34) 109
Schaper, W., see Fischer, S. (28) 141
Schindler, M., Harrington, K.A., Humphrey, P.P.A. and Emson, P.C.
Cellular localisation and co-expression of somatostatin receptor messenger RNAs in the human brain (34) 321
Schindler, M., see Señaris, R.M. (29) 185
Schipper, H.M., see Chopra, V.S. (31) 173
Schröder, H., see Lobron, C. (30) 70
Schroeder, K.K., see Linnik, M.D. (32) 116
Schulkin, J., see Strauss, K.I. (28) 81
Schulz, N.T., Paulhiac, C.I., Lee, L. and Zhou, R.
Isolation and expression analysis of *tyro*3, a murine growth factor receptor tyrosine kinase preferentially expressed in adult brain (28) 273
Schwarz, M., Loewenstein-Lichtenstein, Y., Glick, D., Liao, J., Norgaard-Pedersen, B. and Soreq, H.
Successive organophosphate inhibition and oxime reactivation reveals distinct responses of recombinant human cholinesterase variants (31) 101
Schwinn, D.A., see Smith, M.S. (34) 109
Scott, A.W., Griffin, S.A. and Luedtke, R.R.
Genetic polymorphisms at the rat and murine loci coding for dopamine D2-like receptors (29) 347
Scully, J.L. and Otten, U.
Neurotrophin expression modulated by glucocorticoids and oestrogen in immortalized hippocampal neurons (31) 158
Seckl, J.R., see Holmes, M.C. (28) 186
Seeburg, P.H., see Laurie, D.J. (32) 94
Segal, D.S., see Richtand, N.M. (33) 97
Seger, R., see Baum, L. (34) 1
Segre, G.V., see Weaver, D.R. (28) 296
Séguin, D., Desforges, M. and Rassart, E.
Molecular characterization and differential mRNA tissue distribution of mouse apolipoprotein D (30) 242
Sekiguchi, M., see Guo, H. (33) 121
Selkoe, D.J., see Querfurth, H.W. (28) 319
Selzer, M.E., see Jacobs, A.J. (29) 43
Señaris, R.M., Schindler, M., Humphrey, P.P.A. and Emson, P.C.
Expression of somatostatin receptor 3 mRNA in the motorneurones of the rat spinal cord, and the sensory neurones of the spinal ganglia (29) 185
Senatorov, V.V., Trudeau, V.L. and Hu, B.
Expression of cholecystokinin mRNA in corticothalamic projecting neurons: a combined fluorescence in situ hybridization and retrograde tracing study in the ventrolateral thalamus of the rat (30) 87
Senba, E., see Kashiba, H. (30) 158
Seroogy, K.B., see Numan, S. (29) 391
Serratosa, J., see Barrón, S. (30) 279
Severynse, D.M., Colapietro, A.-M., Box, T.L. and Caron, M.G.
The human D_{1A} dopamine receptor gene promoter directs expression of a reporter gene to the central nervous system in transgenic mice (30) 336
Sharma, E., Zhao, F., Bult, A. and Lombroso, P.J.
Identification of two alternatively spliced transcripts of STEP: a subfamily of brain-enriched protein tyrosine phosphatases (32) 87
Sharma, H.S., see Fischer, S. (28) 141
Sharp, B.M., see Madhok, T.C. (32) 143
Sharp, F.R., see Gaspary, H. (34) 327
Sharp, F.R., see Honkaniemi, J. (28) 157
Sharp, F.R., see Mikawa, S. (33) 288
Shaw, P.J., see Day, N.C. (31) 17
Shaw, P.J., see Volsen, S.G. (34) 271
Sheedlo, H.J., see Jaynes, C.D. (32) 329
Shen, P.-J., Burazin, T.C.D. and Gundlach, A.L.
Noradrenergic regulation of immediate early gene expression in rat forebrain: differential effects of α_1- and α_2-adrenoceptor drugs (28) 222
Shen, S.H., see Tong, Y. (34) 303
Sheng, H.Z., Lin, P.X. and Nelson, P.G.
Combinatorial expression of immediate early genes in single neurons (30) 196
Sherman, T.G. and Moody, C.A.
Alterations in tyrosine hydroxylase expression following partial lesions of the nigrostriatal bundle (29) 285
Shibasaki, T., see Imaki, T. (32) 261
Shida, T., Kondo, E., Ueda, Y., Takai, N., Yoshida, Y., Araki, T., Kiyama, H. and Tohyama, M.
Role of amino acids in salivation and the localization of their receptors in the rat salivary gland (33) 261
Shima, H., see Guo, H. (33) 121
Shimada, H., see Oyama, F. (29) 92
Shimada, S., see Inoue, K. (28) 343
Shimizu-Nishikawa, K., Kajiwara, K., Kimura, M., Katsuki, M. and Sugaya, E.
Cloning and expression of SEZ-6, a brain-specific and seizure-related cDNA (28) 201
Shimoda, K., Ikeshima, H., Matsuo, K., Hata, J.-i., Maejima, K. and Takano, T.
Spatial and temporal regulation of the rat calmodulin gene III directed by a 877-base promoter and 103-base leader segment in the mature and embryonal central nervous system of transgenic mice (31) 61
Shimoda, L.M.N., see Maguire-Zeiss, K.A. (30) 362
Shimron-Abarbanell, D., Nöthen, M.M., Erdmann, J. and Propping, P.
Lack of genetically determined structural variants of the human serotonin-1E ($5\text{-}HT_{1E}$) receptor protein points to its evolutionary conservation (29) 387
Shine, J., see Tong, Y. (34) 303
Shioda, S., see Nakayama, H. (32) 321
Shirataki, H., see Miyazaki, M. (28) 29
Shire, D., see Rodriguez, M. (29) 369
Shiromani, P.J., Magner, M., Winston, S. and Charness, M.E.
Time course of phosphorylated CREB and Fos-like immunoreactivity in the hypothalamic supraoptic nucleus after salt loading (29) 163
Shock, L.P., Bare, D.J., Klinz, S.G. and Maness, P.F.
Protein tyrosine phosphatases expressed in developing brain and retinal Müller glia (28) 110
Silver, J., see Baum, L. (34) 1
Simmet, T., see Mamot, C. (33) 79
Simmons, K.L., see McMillian, M.K. (31) 210
Sirimanne, E.S., see Beilharz, E.J. (29) 1
Sirimanne, E.S., see Beilharz, E.J. (29) 81
Skup, M., see Figueiredo, B.C. (33) 1
Skutella, T., see Probst, J.C. (33) 269
Sliwinski, S., see Besançon, R. (29) 253
Smith, D.H., see Fan, L. (30) 125
Smith, G.B., see Valenzuela, C.F. (31) 165
Smith, K.E., see Durkin, M.M. (33) 7
Smith, M.A., see O'Connor, L.T. (33) 277
Smith, M.S., Schambra, U.B., Wilson, K.H., Page, S.O., Hulette, C., Light, A.R. and Schwinn, D.A.
α_2-Adrenergic receptors in human spinal cord: specific localized expression of mRNA encoding α_2-adrenergic receptor subtypes at four distinct levels (34) 109
Smith, W., see Volsen, S.G. (34) 271
Soghomonian, J.-J., see Laprade, N. (34) 65
Sonti, G., see Plata-Salamán, C.R. (33) 72
Soosaar, A., see Chiaramello, A. (29) 107
Sorci-Thomas, M., see Keiger, C.J. (32) 75
Soreq, H., see Schwarz, M. (31) 101
Sorg, B.A., Guminski, B.J.M., Hooks, M.S. and Kalivas, P.W.
Cocaine alters glutamic acid decarboxylase differentially in the nucleus accumbens core and shell (29) 381
Soriano, E., see De Lecea, L. (32) 1
Soto-Prior, A., Cluzel, M., Renard, N., Ripoll, C., Lavigne-Rebillard, M., Eybalin, M. and Hamel, C.P.
Molecular cloning and expression of α parvalbumin in the guinea pig cochlea (34) 337

Spano, P.F., see Pizzi, M. (34) 38
Spratt, D.P., see Herbison, A.E. (34) 143
Sprinkle-Cavallo, J., see Linnik, M.D. (32) 116
Stahl, W.L., see Eakin, T.J. (29) 71
Stenfors, C., see Zachrisson, O. (31) 71
Stevens, J.G., see Bloom, D.C. (31) 48
Strauss, K.I., Schulkin, J. and Jacobowitz, D.M.
Corticosterone effects on rat calretinin mRNA in discrete brain nuclei and the testes (28) 81
Strehler, E.E., see Zacharias, D.A. (28) 263
Strömstedt, M. and Waterman, M.R.
Messenger RNAs encoding steroidogenic enzymes are expressed in rodent brain (34) 75
Suau, P., see Lafarga, M. (29) 317
Sugaya, E., see Shimizu-Nishikawa, K. (28) 201
Sugihara, H., see Minami, S. (33) 305
Sugimoto, T., see Tsukahara, Y. (29) 376
Sugita, M., see Matsuyama, T. (34) 166
Sumino, K., see Saijoh, K. (30) 301
Sumners, C., see Scammell, J.G. (33) 326
Sun, G.Y., see Zhang, S.X. (32) 252
Suzuki, N., see Minami, S. (33) 305
Suzuki, Y., see Imai, Y. (31) 1
Szaro, B.G., see Gervasi, C. (33) 192

T

Tada, S., see Matsumoto, M. (29) 157
Tafani, J.-A.M., see Arnauld, E. (30) 223
Tagashira, S., Ozaki, K., Ohta, M. and Itoh, N.
Localization of fibroblast growth factor-9 mRNA in the rat brain (30) 233
Tagaya, M., see Matsuyama, T. (34) 166
Taguchi, A., see Mori, T. (29) 325
Taguchi, A., see Mori, T. (34) 154
Takagi, H., see Nagano, T. (32) 14
Takagi, T., see Imai, Y. (31) 1
Takagi, T., see Imaizumi, K. (32) 338
Takahashi, C., see Imaki, T. (32) 261
Takahashi, Y., see Sakimura, K. (28) 19
Takai, N., see Shida, T. (33) 261
Takai, Y., see Miyazaki, M. (28) 29
Takano, T., see Shimoda, K. (31) 61
Takayama, C., see Ikeda, K. (33) 61
Takayama, S., see Sasahara, M. (32) 63
Takeshima, H., see Ueda, H. (32) 166
Tamada, Y., see Okamura, H. (29) 358
Tamura, S., see Guo, H. (33) 121
Tan, A., see Bloom, D.C. (31) 48
Tanaka, M., see Ikebe, S.-i. (28) 281
Tanaka, O., Sakagami, H. and Kondo, H.
Localization of mRNAs of voltage-dependent Ca^{2+}-channels: four subtypes of $\alpha 1$- and β-subunits in developing and mature rat brain (30) 1
Tanaka, O., see Guo, H. (33) 121
Tanaka, Y., see Furukawa, H. (30) 385
Taniguchi, M., see Miyakawa, T. (28) 349
Tanzi, R.E., see Kim, T.-W. (32) 36
Tasaki, Y., see Matsumoto, M. (29) 157
Tashiro, Y., see Tsukahara, Y. (29) 376
Tate, W., see Williams, J. (28) 87
Tateishi, J., see Furukawa, H. (30) 385
Tateishi, K., see Miyakawa, T. (28) 349
Tejani-Butt, S.M., see Xiao, Q. (30) 389
Tempel, A., Yang, J. and Basheer, R.
Prenatal morphine exposure differentially alters expression of opioid peptides in striatum of newborns (33) 227
Testori, A., see Abramovitz, M. (28) 37
Thomas, N.S.B., see Lakin, N.D. (28) 47
Thompson, F.Y., see Linnik, M.D. (32) 116
Thompson, R.C., see Ruzicka, B.B. (34) 209
Ticku, M.K., see Follesa, P. (29) 99
Ticku, M.K., see Hu, X.-J. (30) 347
Toews, A.D., see Roberson, M.D. (28) 231
Tohdoh, N., Tojo, S., Agui, H. and Ojika, K.
Sequence homology of rat and human HCNP precursor proteins, bovine phosphatidylethanolamine-binding protein and rat 23-kDa protein associated with the opioid-binding protein (30) 381
Tohyama, M., see Honda, S. (32) 197
Tohyama, M., see Imai, Y. (31) 1
Tohyama, M., see Inoue, K. (28) 343
Tohyama, M., see Mori, T. (29) 325
Tohyama, M., see Mori, T. (34) 154
Tohyama, M., see Nagano, T. (32) 14
Tohyama, M., see Shida, T. (33) 261
Tohyama, M., see Yuguchi, T. (28) 181
Tojo, S., see Tohdoh, N. (30) 381
Tokuda, M., see Tomizawa, K. (28) 122
Tolentino, P.J., Dikkes, P., Tsuruda, L., Ebert, K., Fink, J.S., Villa-Komaroff, L. and Lamperti, E.D.
Quantitative analysis of the expression of a VIP transgene (33) 47
Tölle, T.R., see Laurie, D.J. (32) 94
Tomasec, P., see Lowenstein, P.R. (30) 169
Tomizawa, K., Matsui, H., Kondo, E., Miyamoto, K., Tokuda, M., Itano, T., Nagahata, S., Akagi, T. and Hatase, O.
Developmental alteration and neuron-specific expression of bone morphogenetic protein-6 (BMP-6) mRNA in rodent brain (28) 122
Tomlinson, D.R., see Brewster, W.J. (29) 131
Tong, Y., Dumont, Y., Shen, S.H., Herzog, H., Shine, J. and Quirion, R.
Expression of the neuropeptide Y Y_1 receptor in human embryonic kidney 293 cells: ligand binding characteristics, in situ hybridization and receptor autoradiography (34) 303
Triarhou, L.C., see Lee, W.-H. (30) 259
Trudeau, V.L., see Senatorov, V.V. (30) 87
Tschernitz, C., Laslop, A., Eiter, C., Kroesen, S. and Winkler, H.
Biosynthesis of large dense-core vesicles in PC12 cells: effects of depolarization and second messengers on the mRNA levels of their constituents (31) 131
Tsuda, M., see Asanuma, M. (33) 29
Tsuda, M., see Imaizumi, K. (32) 338
Tsuji, S., see Yuguchi, T. (28) 181
Tsujimoto, Y., see Higuchi, M. (29) 263
Tsujimura, A., see Katsura, M. (34) 355
Tsukahara, Y., Houtani, T., Ueyama, T., Ikeda, M., Nakanishi, S., Yamamoto, A., Tashiro, Y. and Sugimoto, T.
A subpopulation of large ganglion neurons express IsK protein mRNA: an in situ hybridization analysis in the rat eye (29) 376
Tsuruda, L., see Tolentino, P.J. (33) 47
Turner, J.E., see Jaynes, C.D. (32) 329
Tusell, J.M., see Barrón, S. (30) 279

U

Uchino, S., see Kawamoto, S. (30) 137
Ueda, H. and Hieber, V.
Down-regulation of AMPA-type glutamate receptor gene expression during goldfish optic nerve regeneration (32) 151
Ueda, H., Miyamae, T., Fukushima, N., Takeshima, H., Fukuda, K., Sasaki, Y. and Misu, Y.
Opioid μ- and κ-receptor mediate phospholipase C activation through Gi1 in *Xenopus* oocytes (32) 166
Ueda, H., see Hayashi, C. (33) 347
Ueda, S., Kokotos Leonardi, E.T., Bell III, J. and Azmitia, E.C.
Serotonergic sprouting into transplanted C-6 gliomas is blocked by S-100β antisense gene (29) 365
Ueda, Y., see Kashiba, H. (30) 158
Ueda, Y., see Shida, T. (33) 261
Uemura, Y., see Higashi, T. (34) 262
Ueyama, T., see Miyazaki, M. (28) 29
Ueyama, T., see Tsukahara, Y. (29) 376
Uhl, G.R., see Donovan, D.M. (30) 327
Uhl, G.R., see Unterwald, E.M. (33) 351
Ulfhake, B., see Meister, B. (33) 87
Ullrich, A., see Nucifora, Jr., F.C. (32) 291
Unlap, T. and Jope, R.S.
Diurnal variation in kainate-induced AP-1 activation in rat brain: influence of glucocorticoids (28) 193
Uno, H., see Matsuyama, T. (34) 166
Unterwald, E.M., Rubenfeld, J.M., Imai, Y., Wang, J.-B., Uhl, G.R. and Kreek, M.J.
Chronic opioid antagonist administration upregulates mu opioid receptor binding without altering mu opioid receptor mRNA levels (33) 351

V

Valcourt, E.G., see Meberg, P.J. (34) 343
Valentine, D.L., see Scammell, J.G. (33) 326

Valenzuela, C.F., Machu, T.K., McKernan, R.M., Whiting, P., VanRenterghem, B.B., McManaman, J.L., Brozowski, S.J., Smith, G.B., Olsen, R.W. and Harris, R.A.
Tyrosine kinase phosphorylation of $GABA_A$ receptors (31) 165
Valerio, A., see Pizzi, M. (34) 38
Vandenbergh, D.J., see Donovan, D.M. (30) 327
Vanderklish, P., Saido, T.C., Gall, C., Arai, A. and Lynch, G.
Proteolysis of spectrin by calpain accompanies theta-burst stimulation in cultured hippocampal slices (32) 25
Van Groenigen, M., see Piosik, P.A. (29) 119
VanRenterghem, B.B., see Valenzuela, C.F. (31) 165
Vellucci, S.V., Parrott, R.F., Da Costa, A.C., Ohkura, S. and Kendrick, K.M.
Increased body temperature, cortisol secretion, and hypothalamic expression of c-*fos*, corticotrophin releasing hormone and interleukin-1β mRNAs, following central administration of interleukin-1β in the sheep (29) 64
Villa-Komaroff, L., see Tolentino, P.J. (33) 47
Vink, K.L., see Priest, C.A. (28) 61
Vogel, Z., see Matus-Leibovitch, N. (34) 221
Volsen, S.G., Day, N.C., McCormack, A.L., Smith, W., Craig, P.J., Beattie, R., Ince, P.G., Shaw, P.J., Ellis, S.B., Gillespie, A., Harpold, M.M. and Lodge, D.
The expression of neuronal voltage-dependent calcium channels in human cerebellum (34) 271
Voorn, P., see Jongen-Rêlo, A.L. (28) 169
Vrana, K.E., see Kluttz, B.W. (32) 313
Vrana, K.E., see Vrana, S.L. (34) 127
Vrana, S.L., Kluttz, B.W. and Vrana, K.E.
Application of quantitative RT-PCR to the analysis of dopamine receptor mRNA levels in rat striatum (34) 127

W

Wagner, C.K. and Morrell, J.I.
In situ analysis of estrogen receptor mRNA expression in the brain of female rats during pregnancy (33) 127
Wagner, J., see Kim, K.S. (33) 254
Wakabayashi, I., see Minami, S. (33) 305
Waldvogel, H., see Dragunow, M. (30) 393
Wallace, C.S., Withers, G.S., Weiler, I.J., George, J.M., Clayton, D.F. and Greenough, W.T.
Correspondence between sites of NGFI-A induction and sites of morphological plasticity following exposure to environmental complexity (32) 211
Wanaka, A., see Honda, S. (32) 197
Wanaka, A., see Imai, Y. (31) 1
Wanaka, A., see Kohmura, E. (28) 117
Wanaka, A., see Matsuyama, T. (34) 166
Wanaka, A., see Mori, T. (29) 325
Wanaka, A., see Mori, T. (34) 154
Wanaka, A., see Yuguchi, T. (28) 181
Wang, G.-M., see Lee, W.-H. (30) 259
Wang, J., see Parker, E.M. (34) 179
Wang, J., see Sasahara, M. (32) 63
Wang, J.-B., see Unterwald, E.M. (33) 351
Wang, S., see Bartolome, J.V. (33) 149
Wasco, W., see Kim, T.-W. (32) 36
Watanabe, Y., Akabayashi, A. and McEwen, B.S.
Adrenal steroid regulation of neuropeptide Y (NPY) mRNA: differences between dentate hilus and locus coeruleus and arcuate nucleus (28) 135
Watanabe, Y., McKittrick, C.R., Blanchard, D.C., Blanchard, R.J., McEwen, B.S. and Sakai, R.R.
Effects of chronic social stress on tyrosine hydroxylase mRNA and protein levels (32) 176
Watanabe, Y., see Angulo, J.A. (29) 15
Waterman, M.R., see Strömstedt, M. (34) 75
Watson, M.A., see Yamada, M. (33) 343
Watson, S.J., see Ruzicka, B.B. (34) 209
Waxman, S.G., see Black, J.A. (34) 89
Waxman, S.G., see Matsui, T. (33) 217
Waxman, S.G., see Oh, Y. (30) 357
Waxman, S.G., see Sashihara, S. (34) 239
Waxman, S.G., see Zur, K.B. (30) 97
Waymire, J.C., see Craviso, G.L. (29) 233
Weaver, D.R. and Reppert, S.M.
Definition of the developmental transition from dopaminergic to photic regulation of c-*fos* gene expression in the rat suprachiasmatic nucleus (33) 136
Weaver, D.R., Deeds, J.D., Lee, K. and Segre, G.V.
Localization of parathyroid hormone-related peptide (PTHrP) and PTH/PTHrP receptor mRNAs in rat brain (28) 296
Weaver, J., see Roberson, M.D. (28) 231
Weber, T., see Krasemann, S. (34) 173
Weiland, N.G. and Orchinik, M.
Specific subunit mRNAs of the $GABA_A$ receptor are regulated by progesterone in subfields of the hippocampus (32) 271
Weiland, N.G., see Orchinik, M. (34) 29
Weiler, I.J., see Wallace, C.S. (32) 211
Weinshank, R.L., see Durkin, M.M. (33) 7
Westenbroek, R.E., see Black, J.A. (34) 89
Westphal, R.S., see Backstrom, J.R. (33) 311
Wevers, A., see Lobron, C. (30) 70
Whiting, P., see Valenzuela, C.F. (31) 165
Wick, M.J., Ann, D.K. and Loh, H.H.
Molecular cloning of a novel protein regulated by opioid treatment of NG108-15 cells (32) 171
Wick, M.J., Minnerath, S.R., Roy, S., Ramakrishnan, S. and Loh, H.H.
Expression of alternate forms of brain opioid 'orphan' receptor mRNA in activated human peripheral blood lymphocytes and lymphocytic cell lines (32) 342
Wießner, C.
The dual specificity phosphatase PAC-1 is transcriptionally induced in the rat brain following transient forebrain ischemia (28) 353
Wijsman, E.M., see Querfurth, H.W. (28) 319
Wilcox, G.L., see Birnbaum, A.K. (28) 72
Williams, A., see Angulo, J.A. (29) 15
Williams, C.E., see Beilharz, E.J. (29) 1
Williams, C.E., see Beilharz, E.J. (29) 81
Williams, J., Dragunow, M., Lawlor, P., Mason, S., Abraham, W.C., Leah, J., Bravo, R., Demmer, J. and Tate, W.
Krox20 may play a key role in the stabilization of long-term potentiation (28) 87
Williams, J., see Abraham, W.C. (30) 367
Williams, T.L., see Day, N.C. (31) 17
Wilson, C.D., see Plata-Salamán, C.R. (33) 72
Wilson, K.H., see Smith, M.S. (34) 109
Winkler, H., see Tschernitz, C. (31) 131
Winston, S., see Shiromani, P.J. (29) 163
Withers, G.S., see Wallace, C.S. (32) 211
Wong, E.T., Holstad, S.G., Mennerick, S.J., Hong, S.E., Zorumski, C.F. and Isenberg, K.E.
Pharmacological and physiological properties of a putative ganglionic nicotinic receptor, $\alpha_3\beta_4$, expressed in transfected eucaryotic cells (28) 101
Wood, J.N., see Ninkina, N.N. (33) 233
Woodgett, J.R., see Baum, L. (34) 1
Wotta, D.R., see Birnbaum, A.K. (28) 72
Wozniak, A., see Raab, H. (34) 333
Wright, D.E., see Numan, S. (29) 391
Wu, D., see Li, Y.-P. (30) 106
Wu, K., see Kim, T.-W. (32) 36
Wu, X.-l., see Kumar, K. (30) 149
Wurzburger, R., see Abogadie, F.C. (31) 10

X

Xiao, Q., Yao, Y. and Tejani-Butt, S.M.
Acute administration of α-methyl-*para*-tyrosine alters levels of norepinephrine transporter mRNA in the rat brainstem (30) 389
Xiao-Quan, W., see Imaki, T. (32) 261
Xu, J.-L., see Kim, T.-W. (32) 36

Y

Yabuuchi, K., see Minami, M. (30) 203
Yagi, T., see Ikeda, K. (33) 61
Yagi, T., see Miyakawa, T. (28) 349
Yamada, K., see Kohmura, E. (28) 117
Yamada, K., see Yuguchi, T. (28) 181
Yamada, M., Bolden-Watson, C., Watson, M.A., Cho, T., Coleman, N.J., Yamada, M. and Richelson, E.

Regulation of neurotensin receptor mRNA expression by the receptor antagonist SR 48692 in the rat midbrain dopaminergic neurons (33) 343
Yamada, M., see Yamada, M. (33) 343
Yamaguchi, T., see Matsumoto, M. (29) 157
Yamakawa, A., see Imaki, J. (30) 48
Yamamoto, A., see Tsukahara, Y. (29) 376
Yamamoto, M., see Honda, S. (33) 319
Yamamoto, M., see Ninkina, N.N. (33) 233
Yamamoto, Y., see Matsuyama, T. (34) 166
Yamashita, K., see Imaki, J. (30) 48
Yamashita, T., see Yuguchi, T. (28) 181
Yang, J., see Tempel, A. (33) 227
Yao, G.L. and Kiyama, H.
Colchicine induces the GAP-43 gene expression in rat hypothalamus (30) 373
Yao, G.L. and Kiyama, H.
Dexamethasone enhances level of GAP-43 mRNA after nerve injury and facilitates reprojection of the hypoglossal nerve (32) 308
Yao, Y., see Xiao, Q. (30) 389
Yi, S.-D., see Mack, K.J. (29) 140
Yoshida, K., see Imaki, J. (30) 48
Yoshida, Y., see Shida, T. (33) 261
Young, D., see Dragunow, M. (32) 279
Young, D., see MacGibbon, G.A. (34) 294
Young, P.R., see Fan, L. (30) 125
Yuguchi, T., Kohmura, E., Yamada, K., Sakaki, T., Yamashita, T., Otsuki, H., Wanaka, A., Tohyama, M., Tsuji, S. and Hayakawa, T.
Changes in growth inhibitory factor mRNA expression compared with those in c-*jun* mRNA expression following facial nerve transection (28) 181
Yuguchi, T., see Kohmura, E. (28) 117

Z

Zacharias, D.A., Dalrymple, S.J. and Strehler, E.E.
Transcript distribution of plasma membrane Ca^{2+} pump isoforms and splice variants in the human brain (28) 263
Zachrisson, O., Mathé, A.A., Stenfors, C. and Lindefors, N.
Limbic effects of repeated electroconvulsive stimulation on neuropeptide Y and somatostatin mRNA expression in the rat brain (31) 71
Zagon, I.S. and McLaughlin, P.J.
Gene-peptide relationships in the developing rat brain: the response of preproenkephalin mRNA and [Met^5]-enkephalin to acute opioid antagonist (naltrexone) exposure (33) 111
Zaloga, C., see Li, Y. (28) 164
Zehnder, T.J., see Keiger, C.J. (32) 75
Zelenika, D., Grima, B., Brenner, M. and Pessac, B.
A novel glial fibrillary acidic protein mRNA lacking exon 1 (30) 251
Zerr, I., see Krasemann, S. (34) 173
Zhang, H., see Kim, K.S. (33) 254
Zhang, J.-P., see Zhang, S.X. (32) 252
Zhang, L., see Chen, H. (32) 348
Zhang, L., see Ikari, H. (34) 315
Zhang, S.X., Zhang, J.-P., Fletcher, D.L., Zoeller, R.T. and Sun, G.Y.
In situ hybridization of mRNA expression for IP_3 receptor and IP_3-3-kinase in rat brain after transient focal cerebral ischemia (32) 252
Zhao, F., see Sharma, E. (32) 87
Zhong, P. and Ciaranello, R.D.
Transcriptional regulation of hippocampal 5-HT_{1a} receptors by corticosteroid hormones (29) 23
Zhou, R., see Schulz, N.T. (28) 273
Zhu, W., Dahmen, J., Bulfone, A., Rigolet, M., Hernandez, M.-C., Kuo, W.-L., Puelles, L., Rubenstein, J.L.R. and Israel, M.A.
Id gene expression during development and molecular cloning of the human Id-1 gene (30) 312
Zhuang, H.-X., see Pu, S.-F. (34) 18
Zieglgänsberger, W., see Laurie, D.J. (32) 94
Zimmer, W.E., see Ma, Y. (30) 176
Ziółkowska, B. and Höllt, V.
Fos is not involved in the regulation of the proenkephalin gene by haloperidol in the mouse striatum (34) 351
Zoeller, R.T., see Zhang, S.X. (32) 252
Zorumski, C.F., see Wong, E.T. (28) 101
Zuber, M.X., see Chiaramello, A. (29) 107
Zur, K.B., Oh, Y., Waxman, S.G. and Black, J.A.
Differential up-regulation of sodium channel α- and β1-subunit mRNAs in cultured embryonic DRG neurons following exposure to NGF (30) 97

MOLECULAR BRAIN RESEARCH
AUTHOR INDEX
1995
VOLUMES 28–34

A

N-Acetylaspartate
Brain; Acetyl CoA; Lipid synthesis; Liver; Canavan disease (Mehta, V. (31) 151)

Acetylcholine
Amacrine cell; Ganglion cell; Nitric oxide synthase; Tyrosine hydroxylase; Gene induction (Koistinaho, J. (29) 53)

Acetylcholine receptor
Cerebral cortex; Immunocytochemistry; Nicotinic receptor; Rat (Nakayama, H. (32) 321)

Acetylcholine release
Peroxynitrite; *N*-Methyl-D-aspartate; Superoxide dismutase; Sodium nitroprusside (Ohkuma, S. (31) 185)

Nitric oxide; Peroxynitrite; Hydroxyl radical; Hydroxyl radical scavenger; Cerebral cortical neurons (Ohkuma, S. (34) 347)

Acetylcholinesterase
Organophosphate; Oxime reaction; Butyrylcholinesterase; Diisopropylfluorophosphonate; Pyridine-2-aldoxime methiodide (Schwarz, M. (31) 101)

Acetylcholine synthesis
Hippocampal cholinergic neurostimulating peptide; HCNP; Phosphatidylethanolamine-binding protein; Opioid-binding associated protein; Nucleotide sequence (Tohdoh, N. (30) 381)

Acetyl CoA
N-Acetylaspartate; Brain; Lipid synthesis; Liver; Canavan disease (Mehta, V. (31) 151)

Acidic fibroblast growth factor
Astrocyte; Central nervous system; Cortical infarction; Nerve growth factor; Nucleus basalis magnocellularis; Rat cerebral cortex (Figueiredo, B.C. (33) 1)

Acoustic priming
Fyn tyrosine kinase; Mutant mouse; Gene targeting; Audiogenic seizure; Wild running; Clonic–tonic convulsion (Miyakawa, T. (28) 349)

Acrylamide
Isoniazid; Axotomy (Roberson, M.D. (28) 231)

ß-Actin
α-Tubulin; Brain ischemia; mRNA (Kumar, K. (30) 149)

Action potential electrogenesis
Ion channel; Hybridization, in situ (Sashihara, S. (34) 239)

Activity-dependent regulation
Protein kinase; mRNA; Hilus lesion; Epilepsy (Murray, K.D. (32) 221)

Acute estrogen
Preproenkephalin; Ventromedial hypothalamic nucleus; mRNA; Hybridization, in situ; Estrogen; Reproductive behavior (Priest, C.A. (28) 251)

Adenosine
Endothelial cell; Gene expression; Porcine brain; Vascular permeability factor (Fischer, S. (28) 141)

Adenosine 3′,5′-cyclic monophosphate
Granin; Protein kinase C; Depolarization; Forskolin; Nerve growth factor; PC12 cells; Radioimmunoassay; Neurons; Primary cultures (Scammell, J.G. (33) 326)

Adenylyl cyclase
Cystic fibrosis transmembrane conductance regulator; CFTR; α_2 Adrenoceptor; β_2 Adrenoceptor; δ Opioid receptor; Protein kinase A; Cyclic AMP (Birnbaum, A.K. (28) 72)

κ-Opioid receptor; G-protein; CHO cell; Transfection; U50-488H; Dynorphin-A(1–17) (Prather, P.L. (29) 336)

Pro-enkephalin mRNA; Opioid tolerance; Forskolin; Cyclic AMP responsive element (Kluttz, B.W. (32) 313)

Adrenal
Enkephalin; Chromaffin; Nicotine; c-*fos* related antigen; AP-1 (McMillian, M.K. (31) 210)

Adrenalectomy
Hippocampus; Arcuate nucleus; Locus coeruleus; Neuropeptide Y mRNA; Type I receptor; Adrenal steroid receptor Type II; Hybridization, in situ (Watanabe, Y. (28) 135)

Adrenal gland
Nicotine; Gene expression; c-*fos*; Jun; CREB (Hiremagalur, B. (32) 109)

Adrenal steroid
Angiotensin gene; Rat forebrain; Salt appetite (Riftina, F. (33) 201)

Preproneurokinin-A gene; Rat brain (Pompei, P. (33) 209)

Fibroblast growth factor; Seizure; Kainate; mRNA; Hippocampus (Riva, M.A. (34) 190)

Adrenal steroid receptor Type II
Hippocampus; Arcuate nucleus; Locus coeruleus; Neuropeptide Y mRNA; Adrenalectomy; Type I receptor; Hybridization, in situ (Watanabe, Y. (28) 135)

Adrenergic
Induction; Gene expression; Nicotinic cholinergic receptor occupancy; Dimethylphenylpiperazinium; Cycloheximide; Anisomycin (Craviso, G.L. (29) 233)

Adrenergic β3 receptor
Human brain; PCR; Quantitative PCR; Cloning; Sequence analysis (Rodriguez, M. (29) 369)

α-Adrenoceptor
Immediate early gene; Zinc finger transcription factor; Cortex; Caudate putamen; Hippocampus; Hybridization histochemistry, in situ (Shen, P.-J. (28) 222)

α_2 Adrenoceptor
Cystic fibrosis transmembrane conductance regulator; CFTR; β_2 Adrenoceptor; δ Opioid receptor; Protein kinase A; Adenylyl cyclase; Cyclic AMP (Birnbaum, A.K. (28) 72)

β_2 Adrenoceptor
Cystic fibrosis transmembrane conductance regulator; CFTR; α_2 Adrenoceptor; δ Opioid receptor; Protein kinase A; Adenylyl cyclase; Cyclic AMP (Birnbaum, A.K. (28) 72)

Afterdischarge
Piriform cortex; Perirhinal cortex; c-*fos*; *egr*-1 (Chiasson, B.J. (29) 191)

Aging
Degeneration; Uptake; Carrier; Transport; 5-Hydroxytryptamine; Raphe nucleus; Spinal cord; Hybridization, in situ (Meister, B. (33) 87)

Huntington's disease; Parkinson's disease; Motor performance; Neurotransmitter receptor; Gene therapy (Ikari, H. (34) 315)

Agonist efficacy
Nicotinic receptor expression; Agonist potency; Ganglionic antagonists; α Bungarotoxin; Desensitization; Muscarinic receptor (Wong, E.T. (28) 101)

Agonist potency
Nicotinic receptor expression; Agonist efficacy; Ganglionic antagonists; α Bungarotoxin; Desensitization; Muscarinic receptor (Wong, E.T. (28) 101)

Agrin
Synapse; Synaptic plasticity; Learning and memory; Seizure; Epilepsy; Gene expression (O'Connor, L.T. (33) 277)

Alternative mRNA
L1CAM; Hydrocephalus; Splicing; Exon 2 (Jouet, M. (30) 378)

Alternative splicing
Calcium; Calcium homeostasis; Calcium ATPase; Human brain; Polymerase chain reaction; Tissue distribution (Zacharias, D.A. (28) 263)

STEP; Protein tyrosine phosphatase; Striatum; Exon; Intron; Genomic organization (Sharma, E. (32) 87)

Alzheimer's disease
Calbindin D28k; Calcium binding protein; In situ hybridization; Hippocampus; Cortex (Maguire-Zeiss, K.A. (30) 362)

Immunocross-reactivity; Immunoassay; Microtubule associated protein tau; Neurofibrillary pathology; Paired helical filament (Del C. Alonso, A. (31) 194)

β-Amyloid precursor protein; Gene regulation; Promoter; Growth factor; Interleukin-1; Retinoic acid; PC12 cell; Differentiation (Lahiri, D.K. (32) 233)

Low density lipoprotein receptor-related protein; α_2-Macroglobulin; Apolipoprotein E; Hybridization, in situ; Central nervous system (Ishiguro, M. (33) 37)

Apolipoprotein E; Apolipoprotein J; Clusterin; Apo E genotype; Hippocampus (Bertrand, P. (33) 174)

β-Amyloid precursor protein; Transcriptional regulation; Heat shock element; Stress response (Dewji, N.N. (33) 245)

Tau protein; Protein phosphatase 1; Protein phosphatase 2A; Glycogen synthase kinase 3; MAP kinase (Baum, L. (34) 1)

Neurotoxicity; Cell cycle; Hippocampus; Deafferentation; Entorhinal cortex; Glutamate; Neurodegeneration (Poirier, J. (34) 57)

S100β; S-100; β-Amyloid; Trophic factor; Gliosis; Astrocytes; Gene regulation; Transcription; Calcium-binding protein (Peña, L.A. (34) 118)

Amacrine cell
Ganglion cell; Nitric oxide synthase; Acetylcholine; Tyrosine hydroxylase; Gene induction (Koistinaho, J. (29) 53)

γ-Aminobutyric acid receptor
Antibody; Benzodiazepine receptor (Fernando, L.P. (28) 94)

γ-Aminobutyric acid
Cocaine; Dopamine D2 receptor; Messenger RNA; Nucleus accumbens; Preproenkephalin; Preprotachykinin; Sensitization (Sorg, B.A. (29) 381)

Glutamate; $GABA_A$; AMPA; Receptor; Salivary gland (Shida, T. (33) 261)

γ-Aminobutyric acid transport
Synaptic plasma membrane; Membrane potential (Gonçalves, P.P. (32) 161)

γ-Aminobutyric acid transporter
Hybridization, in situ; mRNA; Glia; Meninges; Brain (Durkin, M.M. (33) 7)

AMPA
γ-Aminobutyric acid; Glutamate; $GABA_A$; Receptor; Salivary gland (Shida, T. (33) 261)

AMPA receptor
Gene expression; Glutamate; Human brain; Hybridization, in situ; Messenger RNA; Schizophrenia (Eastwood, S.L. (29) 211)

Human brain; Hippocampus; Cerebellum; Hybridization, in situ; Immunocytochemistry (Day, N.C. (31) 17)

Amygdala
Morphine; Opiate tolerance; Synapsin I mRNA; Locus coeruleus; Spinal cord; Hybridization, in situ (Matus-Leibovitch, N. (34) 221)

β-Amyloid
S100β; S-100; Alzheimer's disease; Trophic factor; Gliosis; Astrocytes; Gene regulation; Transcription; Calcium-binding protein (Peña, L.A. (34) 118)

Amyloid β protein precursor
Amyloid precursor-like protein; Postsynaptic density; Synapse; Cerebral cortex (Kim, T.-W. (32) 36)

Amyloid precursor-like protein
Amyloid β protein precursor; Postsynaptic density; Synapse; Cerebral cortex (Kim, T.-W. (32) 36)

β-Amyloid precursor protein
Familial Alzheimer's disease; β-Amyloid precursor protein mRNA; Chromosome 14; Linkage analysis (Querfurth, H.W. (28) 319)

Alzheimer's disease; Gene regulation; Promoter; Growth factor; Interleukin-1; Retinoic acid; PC12 cell; Differentiation (Lahiri, D.K. (32) 233)

Alzheimer's disease; Transcriptional regulation; Heat shock element; Stress response (Dewji, N.N. (33) 245)

β-Amyloid precursor protein mRNA
Familial Alzheimer's disease; β-Amyloid precursor protein; Chromosome 14; Linkage analysis (Querfurth, H.W. (28) 319)

β-Amyloid protein precursor
Apolipoprotein E; Genotype; Senile plaque; Neurofibrillary tangle; Cerebral amyloid angiopathy; Tau; Gene expression (Oyama, F. (29) 92)

Androgen
Excitatory amino acid; Hypothalamus; Glutamate; *N*-Methyl-D-aspartate; NMDAR1; Castration; MK-801; Lateral septum; Supraoptic nucleus; mRNA (Kus, L. (28) 55)

Angiotensin
Receptor; AT1; Rat brain; Pituitary; AV3V; In situ hybridization (Lenkei, Z. (30) 53)

Receptor; AT_1; Vasopressin; Rat brain; Hypothalamus; Hybridization, in situ (Lenkei, Z. (34) 135)

Angiotensin gene
Rat forebrain; Adrenal steroid; Salt appetite (Riftina, F. (33) 201)

Anisomycin
Adrenergic; Induction; Gene expression; Nicotinic cholinergic receptor occupancy; Dimethylphenylpiperazinium; Cycloheximide (Craviso, G.L. (29) 233)

Anorexia
Antisense oligonucleotide; G-protein; Feeding; Food intake; Meal pattern; Nervous system; Intracerebroventricular administration; Rat (Plata-Salamán, C.R. (33) 72)

Antagonist
Neurotensin receptor; Dopamine; SR 48692; Up-regulation; mRNA (Yamada, M. (33) 343)

Antibody
Benzodiazepine receptor; γ-Aminobutyric acid receptor (Fernando, L.P. (28) 94)

$5\text{-}HT_{2C}$ receptors; Glycosylation; Sialic acid; Choroid plexus; Serotonin (Backstrom, J.R. (33) 311)

Anti-peptide antibody
Calcium homeostasis; Calmodulin; GAP-43; Granule cell; Immunocytochemistry; Hybridization, in situ; mRNA; Oligonucleotide probe; Purkinje cell (Eakin, T.J. (29) 71)

Antisense oligonucleotide
G-protein; Feeding; Food intake; Meal pattern; Anorexia; Nervous system; Intracerebroventricular administration; Rat (Plata-Salamán, C.R. (33) 72)

Antiserum
GABA transporter; Immunocytochemistry; Distribution; Retina; Ciliary body; Retinal pigment epithelium (Honda, S. (33) 319)

AP-1
Immediate-early gene; c-*jun*; Glucocorticoid; Circadian rhythm (Unlap, T. (28) 193)

Serotonin $5\text{-}HT_2$ receptor; Transcription factor; Glucocorticoid receptor; Promoter; c-Fos; c-Jun; Luciferase; Transcription (Garlow, S.J. (31) 201)

Enkephalin; Adrenal; Chromaffin; Nicotine; c-*fos* related antigen (McMillian, M.K. (31) 210)

Cyclosporin A; Pentylenetetrazol; Convulsion; TRE; Electrophoretic mobility-shift assay; Rat brain (Asanuma, M. (33) 29)

Transcription factor; Kainate; Neuronal plasticity; DNA binding (Pennypacker, K.R. (34) 161)

Apo E genotype
Apolipoprotein E; Apolipoprotein J; Clusterin; Alzheimer's disease; Hippocampus (Bertrand, P. (33) 174)

Apolipoprotein E
Genotype; Senile plaque; Neurofibrillary tangle; Cerebral amyloid angiopathy; β-Amyloid protein precursor; Tau; Gene expression (Oyama, F. (29) 92)

Low density lipoprotein receptor-related protein; α_2-Macroglobulin; Alzheimer's disease; Hybridization, in situ; Central nervous system (Ishiguro, M. (33) 37)

Apolipoprotein J; Clusterin; Alzheimer's disease; Apo E genotype; Hippocampus (Bertrand, P. (33) 174)

Apolipoprotein J
Apolipoprotein E; Clusterin; Alzheimer's disease; Apo E genotype; Hippocampus (Bertrand, P. (33) 174)

Apoptosis
DNA fragmentation; Transient middle cerebral artery occlusion; Mouse (Li, Y. (28) 164)

Necrosis; Microglial activation; Infarction; Selective neuronal death; DNA ladder; Hypoxia-ischemia (Beilharz, E.J. (29) 1)

Programmed cell death; TUNEL staining; Stroke; Ischemia; Neurodegeneration; Neuronal death (Linnik, M.D. (32) 116)

Sulphated glycoprotein 2; Brain; Epilepsy (Dragunow, M. (32) 279)

Fas antigen; Cerebral ischemia; BALB/c mouse; Hybridization histochemistry, in situ (Matsuyama, T. (34) 166)

Arcuate
Medial preoptic nucleus; Ventromedial nucleus; Medial amygdala; Postpartum; Maternal behavior; Riboprobe (Wagner, C.K. (33) 127)

Arcuate nucleus
Hippocampus; Locus coeruleus; Neuropeptide Y mRNA; Adrenalectomy; Type I receptor; Adrenal steroid receptor Type II; Hybridization, in situ (Watanabe, Y. (28) 135)

Aromatase
Midbrain; Development; Enzyme activity; mRNA; PCR (Raab, H. (34) 333)

ARP-1
COUP-TF I; In situ hybridization; Orphan receptor; Nuclear hormone receptor; Transcription factor (Lopes da Silva, S. (30) 131)

Astrocyte
Infarction; Microglia; IGF-II; IGF-I; Gene expression; Wound repair (Beilharz, E.J. (29) 81)

Heme oxygenase; Neuron; Neuronal injury; Oxidative injury; Stress protein; Heat shock protein (Dwyer, B.E. (30) 37)

Vectors; Gene therapy; Neuron; Protein targeting; Neurovirology (Lowenstein, P.R. (30) 169)

Glial fibrillary acidic protein; mRNA; Brain; Bone marrow (Zelenika, D. (30) 251)

Cysteamine; Glioma; Heat shock protein; Heme oxygenase; Inclusion (Chopra, V.S. (31) 173)

Acidic fibroblast growth factor; Central nervous system; Cortical infarction; Nerve growth factor; Nucleus basalis magnocellularis; Rat cerebral cortex (Figueiredo, B.C. (33) 1)

S100β; S-100; β-Amyloid; Alzheimer's disease; Trophic factor; Gliosis; Gene regulation; Transcription; Calcium-binding protein (Peña, L.A. (34) 118)

Mu receptor; Delta receptor; Kappa receptor; mRNA (Ruzicka, B.B. (34) 209)

Heat shock protein; Stress proteins; Stroke; Cerebral ischemia; Glia; Neuronal death; Microglia; Neurons; HSP70 (Gaspary, H. (34) 327)

Astroglia
Proenkephalin gene; 5-Lipoxygenase product; Protein kinase (Mamot, C. (33) 79)

AT1
Angiotensin; Receptor; Rat brain; Pituitary; AV3V; In situ hybridization (Lenkei, Z. (30) 53)

AT_1
Angiotensin; Receptor; Vasopressin; Rat brain; Hypothalamus; Hybridization, in situ (Lenkei, Z. (34) 135)

Audiogenic seizure
Fyn tyrosine kinase; Mutant mouse; Gene targeting; Acoustic priming; Wild running; Clonic–tonic convulsion (Miyakawa, T. (28) 349)

Automated DNA sequencing
Phospholipase C; cDNA cloning; Polymerase chain reaction; Hybridization, in situ (Abogadie, F.C. (31) 10)

Autoradiography
Neuropeptide Y Y_1 receptor; Transfected cells; Hybridization, in situ (Tong, Y. (34) 303)

AV3V
Angiotensin; Receptor; AT1; Rat brain; Pituitary; In situ hybridization (Lenkei, Z. (30) 53)

Awake rat
Long-term potentiation; Immediate early gene; Dentate gyrus; Hippocampus (Abraham, W.C. (30) 367)

Axon
IGF mRNA; Somatomedin; Neurotrophic factor; Nerve regeneration (Pu, S.-F. (34) 18)

Axonal growth
Hybridization, in situ; Timm's stain; Kainic acid; Mossy fiber sprouting; Protein F1; GAP-43; Pentobarbital; MK-801; *N*-Methyl-D-aspartate receptor; Seizure; Hippocampus (McNamara, R.K. (33) 22)

Axotomy
Growth inhibitory factor; Facial nerve; Hybridization, in situ; c-*jun* (Yuguchi, T. (28) 181)

Acrylamide; Isoniazid (Roberson, M.D. (28) 231)

MAP kinase; ERK; MEK; PKA; MAPKK; Injury (Kiryu, S. (29) 147)

Retinal ganglion cell; Regeneration; Immediate-early gene; Transcription factor; Peripheral nerve grafting (Robinson, G.A. (30) 61)

Glucocorticoid; Regeneration; Rat; RNA stability (Yao, G.L. (32) 308)

B

Baculovirus
Glutamate receptor; *N*-Methyl-D-aspartate receptor; Dichlorokynurenate; *N*-Glycosylation; ζ1 Subunit; Ion channel; *Spodoptera frugiperda* insect cell (Kawamoto, S. (30) 137)

BALB/c mouse
Fas antigen; Apoptosis; Cerebral ischemia; Hybridization histochemistry, in situ (Matsuyama, T. (34) 166)

Barrel cortex
NGFI-C; Plasticity; Seizure; Zinc finger (Mack, K.J. (29) 140)

CREB; *Fos*; *Jun*; Octamer; Visual cortex (Kaminska, B. (33) 295)

Basal ganglia
Striatum; Choline acetyltransferase; Hybridization, in situ; Immunocytochemistry (Jongen-Rêlo, A.L. (28) 169)

Parkinson's disease; Inducible transcription factor (Dragunow, M. (30) 393)

Neuropeptide; Gene expression; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Primate; Behavioural recovery; L-DOPA treatment (Jolkkonen, J. (32) 297)

Cyclic AMP; Dopamine; Compartment; DARPP-32 (Sakagami, H. (33) 185)

Basic fibroblast growth factor
c-*fos*; Central nervous system injury; MK-801; NMDA (Kohmura, E. (28) 117)

Bax
Bcl-2; Prion protein; Neurodegeneration; Two-hybrid system; Gerstmann–Sträussler syndrome (Kurschner, C. (30) 165)

Bcl-2
Bax; Prion protein; Neurodegeneration; Two-hybrid system; Gerstmann–Sträussler syndrome (Kurschner, C. (30) 165)

Behavioural recovery
Neuropeptide; Gene expression; Basal ganglia; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Primate; L-DOPA treatment (Jolkkonen, J. (32) 297)

Benzodiazepine (chlordiazepoxide)
Corticotropin-releasing factor; Paraventricular nucleus; Stress; Heteronucleous RNA; c-*fos* (Imaki, T. (32) 261)

Benzodiazepine receptor
Antibody; γ-Aminobutyric acid receptor (Fernando, L.P. (28) 94)

Binge
Dopamine; Cocaine; Dynorphin; *zif/268*; c-*fos*; Hybridization, in situ; Nucleus accumbens; Transcription factor; Opioid peptide (Daunais, J.B. (29) 201)

Biological clock
Circadian rhythm; Glutamate decarboxylase; Rho; mRNA; Northern analysis (O'Hara, B.F. (28) 239)

Bone
Ion channel; Immunocytochemistry; Hybridization, in situ (Black, J.A. (34) 89)

Bone marrow
Glial fibrillary acidic protein; mRNA; Astrocyte; Brain (Zelenika, D. (30) 251)

Bone morphogenetic protein
Transforming growth factor-β superfamily; Neurotrophic factor; Developing brain; Neuron; Ischemic brain (Tomizawa, K. (28) 122)

Bovine
cDNA cloning; Selenoprotein; TGA codon; His-Pro rich domain; Brain; Rat (Saijoh, K. (30) 301)

Bovine retina
Glutamate transporter; Cloning; Electrogenic uptake (Inoue, K. (28) 343)

Brain
Glutathione transferase; Transcription; Octamer; Luciferase; C6 glioma (Abramovitz, M. (28) 37)

Tyrosine phosphatase; Polymerase chain reaction; Müller glia; Retina (Shock, L.P. (28) 110)

Voltage-dependent calcium channel; α1-Subunit; β-Subunit; Hybridization, in situ; Localization; Rat (Tanaka, O. (30) 1)

Glial fibrillary acidic protein; mRNA; Astrocyte; Bone marrow (Zelenika, D. (30) 251)

cDNA cloning; Selenoprotein; TGA codon; His-Pro rich domain; Bovine; Rat (Saijoh, K. (30) 301)

Fibroblast growth factor receptor; mRNA; Rat; Cerebellum; Gene expression; Hybridization, in situ (Miyake, A. (31) 95)

Interleukin-1; Interleukin-1 receptor antagonist; Lipopolysaccharide (Gabellec, M.-M. (31) 122)

N-Acetylaspartate; Acetyl CoA; Lipid synthesis; Liver; Canavan disease (Mehta, V. (31) 151)

Apoptosis; Sulphated glycoprotein 2; Epilepsy (Dragunow, M. (32) 279)

γ-Aminobutyric acid transporter; Hybridization, in situ; mRNA; Glia; Meninges (Durkin, M.M. (33) 7)

Opioid; Insulin; Growth; Development; Ornithine decarboxylase mRNA; Liver (Bartolome, J.V. (33) 149)

Steroidogenesis; Cytochrome P450; Rat; Mouse; RT-PCR (Strömstedt, M. (34) 75)

Phosphatidylinositol 3-kinase; Hybridization, in situ; Rat; Development (Ito, Y. (34) 149)

Stress (heat shock) protein; Stress (heat shock) response; Heat shock factor; Transcription; Cerebral ischemia (Higashi, T. (34) 262)

Brain development
Neuronal plasticity; Helix-loop-helix; Gene expression (Chiaramello, A. (29) 107)

c-fos; Gene expression; Striatal compartment; Dopamine D1 receptor; Receptor sensitization (Arnauld, E. (30) 223)

Nervous system; Development; Embryology; Zeta (ζ) opioid receptor; Growth; Gene expression; Peptide; Enkephalin; Caudate putamen; Cerebellum (Zagon, I.S. (33) 111)

Brain ischemia
α-Tubulin; ß-Actin; mRNA (Kumar, K. (30) 149)

Brain mapping
Hybridization, in situ; Neuropeptide; Gene expression (Weaver, D.R. (28) 296)

Brain-specific expression
Seizure; Short consensus repeat; CUB domain; Differential screening; Membrane protein (Shimizu-Nishikawa, K. (28) 201)

Brainstem
Norepinephrine transporter mRNA; α-Methyl-*p*-tyrosine; RT-PCR (Xiao, Q. (30) 389)

α Bungarotoxin
Nicotinic receptor expression; Agonist potency; Agonist efficacy; Ganglionic antagonists; Desensitization; Muscarinic receptor (Wong, E.T. (28) 101)

Buspirone
5-HT_{1A} receptor; 5-HT_{2A} receptor; In situ hybridization; Receptor autoradiography; Rat hippocampus; Receptor up-and down-regulation (Chen, H. (32) 348)

Butyrylcholinesterase
Organophosphate; Oxime reaction; Acetylcholinesterase; Diisopropylfluorophosphonate; Pyridine-2-aldoxime methiodide (Schwarz, M. (31) 101)

C

C7
Galanin; Receptor; G protein; Galantide; M35; M40; Rin14B cells (Parker, E.M. (34) 179)

Ca^{2+}
Ethanol; *N*-Methyl-D-aspartate receptor; Upregulation; Cortical neuron (Hu, X.-J. (30) 347)

Ca^{2+}/calmodulin kinase II
Hybridization, in situ; Gene expression; Hippocampal dentate gyrus (Johnston, H.M. (31) 141)

$^{45}Ca^{2+}$ influx
Nicotinic acetylcholine receptor; *N*-Methyl-D-aspartate receptor; Cerebellar granule cell; Primary culture; Neuronal development (Didier, M. (30) 17)

CA3
Protein F1; GAP-43; Protein kinase C; Long-term potentiation; Hippocampus; Gene expression (Meberg, P.J. (34) 343)

Calbindin-D_{28k}
Radioimmunocytochemistry; Mouse; Cerebellum; Hippocampus; Ventral tegmental area; Cellular protein quantitation; Neuroblastoma (Ng, M.C. (32) 82)

Calbindin D28k
Calcium binding protein; Alzheimer's disease; In situ hybridization; Hippocampus; Cortex (Maguire-Zeiss, K.A. (30) 362)

Calcineurin
Estrous cycle; Preproenkephalin mRNA; Hybridization, in situ; Ventromedial hypothalamus; Glyceraldehyde-3-phosphate-dehydrogenase (Funabashi, T. (28) 129)

Calcitonin gene-related peptide
Gonadal steroid; Hybridization, in situ; Medial preoptic nucleus; Sexual dimorphism (Herbison, A.E. (34) 143)

Calcium
Alternative splicing; Calcium homeostasis; Calcium ATPase; Human brain; Polymerase chain reaction; Tissue distribution (Zacharias, D.A. (28) 263)

Tyrosine hydroxylase; Cyclic AMP; Gene expression; PC12; Phosphatidylinositide (Kim, K.S. (33) 254)

Calcium ATPase
Alternative splicing; Calcium; Calcium homeostasis; Human brain; Polymerase chain reaction; Tissue distribution (Zacharias, D.A. (28) 263)

Calcium binding protein
Calbindin D28k; Alzheimer's disease; In situ hybridization; Hippocampus; Cortex (Maguire-Zeiss, K.A. (30) 362)

Calcium-binding protein
GABAergic interneuron; In situ hybridization; Cortical maturation (De Lecea, L. (32) 1)

S100β; S-100; β-Amyloid; Alzheimer's disease; Trophic factor; Gliosis; Astrocytes; Gene regulation; Transcription (Peña, L.A. (34) 118)

Calcium channel
GAP-43; PC12 cell; Electrophysiology (Gribkoff, V.K. (30) 29)

Second messenger; Inositol lipid; Protein kinase C (Nucifora, Jr., F.C. (32) 291)

Neuronal; Human; Cerebellum (Volsen, S.G. (34) 271)

Calcium homeostasis
Alternative splicing; Calcium; Calcium ATPase; Human brain; Polymerase chain reaction; Tissue distribution (Zacharias, D.A. (28) 263)

Anti-peptide antibody; Calmodulin; GAP-43; Granule cell; Immunocytochemistry; Hybridization, in situ; mRNA; Oligonucleotide probe; Purkinje cell (Eakin, T.J. (29) 71)

mRNA expression; Inositol 1,4,5-trisphosphate receptor; Inositol 1,4,5-trisphosphate 3-kinase; In situ hybridization; Focal cerebral ischemia; Reperfusion (Zhang, S.X. (32) 252)

Calliphora
Synapse; Novel protein; Conserved; Drosophila; Musca (Reichmuth, C. (32) 45)

Calmodulin
Anti-peptide antibody; Calcium homeostasis; GAP-43; Granule cell; Immunocytochemistry; Hybridization, in situ; mRNA; Oligonucleotide probe; Purkinje cell (Eakin, T.J. (29) 71)

Calmodulin gene expression; CaM I; CaM II; Lindane; γ-HCH; δ-HCH (Barrón, S. (30) 279)

Calmodulin-dependent protein kinase II
$GABA_A$ receptor subunit; cDNA; mRNA; Polymerase chain reaction; Northern blot; Southern blot; Splice variant (McKinley, D.D. (28) 175)

Calmodulin gene expression
Calmodulin; CaM I; CaM II; Lindane; γ-HCH; δ-HCH (Barrón, S. (30) 279)

Calmodulin gene III
Neuron; Gene expression; Central nervous system; Transgenic mouse; Development (Shimoda, K. (31) 61)

Calpain
Spectrin; Long-term potentiation; Theta-burst stimulation; Synaptic cytoskeleton; Organotypic culture (Vanderklish, P. (32) 25)

Calphostin C
Opioid receptor; G-protein; Phosphorylation; Protein kinase C; Desensitization (Hayashi, C. (33) 347)

Calretinin
Medial vestibular nucleus; Sensory deprivation; Hybridization histochemistry, in situ (Sans, N. (28) 1)

CaM I
Calmodulin; Calmodulin gene expression; CaM II; Lindane; γ-HCH; δ-HCH (Barrón, S. (30) 279)

CaM II
Calmodulin; Calmodulin gene expression; CaM I; Lindane; γ-HCH; δ-HCH (Barrón, S. (30) 279)

Canavan disease
N-Acetylaspartate; Brain; Acetyl CoA; Lipid synthesis; Liver (Mehta, V. (31) 151)

Cardiovascular regulation
Nucleus of the tractus solitarius; Ventrolateral medulla (Krukoff, T.L. (34) 99)

Carrier
Aging; Degeneration; Uptake; Transport; 5-Hydroxytryptamine; Raphe nucleus; Spinal cord; Hybridization, in situ (Meister, B. (33) 87)

Castration
Excitatory amino acid; Hypothalamus; Androgen; Glutamate; *N*-Methyl-D-aspartate; NMDAR1; MK-801; Lateral septum; Supraoptic nucleus; mRNA (Kus, L. (28) 55)

Cation-independent mannose-6-phosphate receptor
Insulin-like growth factor; In situ hybridization; Localization; Central nervous system (Nagano, T. (32) 14)

Caudate putamen
Immediate early gene; Zinc finger transcription factor; α-Adrenoceptor; Cortex; Hippocampus; Hybridization histochemistry, in situ (Shen, P.-J. (28) 222)

Serotonin; 5-Hydroxytryptamine; 6-Hydroxydopamine; Hybridization, in situ; Neuronal plasticity (Numan, S. (29) 391)

Substance P; Neurokinin-B; Muscarinic; Nucleus accumbens (Lucas, L.R. (30) 181)

Nervous system; Development; Embryology; Zeta (ζ) opioid receptor; Growth; Gene expression; Peptide; Enkephalin; Cerebellum; Brain development (Zagon, I.S. (33) 111)

C2 domain
Choline transport; Hemicholinium-3; Synaptotagmin; *Xenopus* oocyte (O'Regan, S. (32) 135)

Cell adhesion
F3; Neural morphogenesis; Gene organization; Promoter region (Buttiglione, M. (29) 297)

Cell cycle
Neurotoxicity; Alzheimer's disease; Hippocampus; Deafferentation; Entorhinal cortex; Glutamate; Neurodegeneration (Poirier, J. (34) 57)

Cell nucleus
Histone H1°; Chromatin; Transcription; Neuron; Supraoptic nucleus (Lafarga, M. (29) 317)

Cell proliferation
Müller glia; Retinal pigment epithelium; Rat; Immediate-early gene; NGFI-A; c-*fos*; Proliferative vitreoretinopathy (Jaynes, C.D. (32) 329)

Cellular protein quantitation
Radioimmunocytochemistry; Mouse; Cerebellum; Hippocampus; Ventral tegmental area; Neuroblastoma; Calbindin-D_{28k} (Ng, M.C. (32) 82)

Central nervous system
Herpes virus; Vector; Hippocampus; Latent; β-Galactosidase; Gene therapy (Bloom, D.C. (31) 48)

Calmodulin gene III; Neuron; Gene expression; Transgenic mouse; Development (Shimoda, K. (31) 61)

Cation-independent mannose-6-phosphate receptor; Insulin-like growth factor; In situ hybridization; Localization (Nagano, T. (32) 14)

Acidic fibroblast growth factor; Astrocyte; Cortical infarction; Nerve growth factor; Nucleus basalis magnocellularis; Rat cerebral cortex (Figueiredo, B.C. (33) 1)

Low density lipoprotein receptor-related protein; α_2-Macroglobulin; Apolipoprotein E; Alzheimer's disease; Hybridization, in situ (Ishiguro, M. (33) 37)

Central nervous system injury
c-*fos*; Basic fibroblast growth factor; MK-801; NMDA (Kohmura, E. (28) 117)

Cerebellar development
Insulin-like growth factor I; Weaver mutant mouse; Gene expression; External germinal layer (Lee, W.-H. (30) 259)

Cerebellar granule cell
Nicotinic acetylcholine receptor; *N*-Methyl-D-aspartate receptor; Primary culture; Neuronal development; $^{45}Ca^{2+}$ influx (Didier, M. (30) 17)

Cerebellar granule neuron
$GABA_A$ receptor; Glutamate receptor; Plasticity; Nuclear run-on; Transcription (Harris, B.T. (28) 338)

Cerebellum
Neurotrophic factor; Hybridization, in situ; Cerebral cortex; Hippocampus (Schulz, N.T. (28) 273)

AMPA receptor; Human brain; Hippocampus; Hybridization, in situ; Immunocytochemistry (Day, N.C. (31) 17)

Fibroblast growth factor receptor; mRNA; Rat; Brain; Gene expression; Hybridization, in situ (Miyake, A. (31) 95)

Radioimmunocytochemistry; Mouse; Hippocampus; Ventral tegmental area; Cellular protein quantitation; Neuroblastoma; Calbindin-D_{28k} (Ng, M.C. (32) 82)

Nervous system; Development; Embryology; Zeta (ζ) opioid receptor; Growth; Gene expression; Peptide; Enkephalin; Caudate putamen; Brain development (Zagon, I.S. (33) 111)

Neuronal; Calcium channel; Human (Volsen, S.G. (34) 271)

Cerebral amyloid angiopathy
Apolipoprotein E; Genotype; Senile plaque; Neurofibrillary tangle; β-Amyloid protein precursor; Tau; Gene expression (Oyama, F. (29) 92)

Cerebral cortex
Neurotrophic factor; Hybridization, in situ; Hippocampus; Cerebellum (Schulz, N.T. (28) 273)

Rat brain; Hippocampus; Cholinergic transmission; Nicotinic acetylcholine receptor; In situ hybridization; Digoxigenin (Lobron, C. (30) 70)

Amyloid precursor-like protein; Amyloid β protein precursor; Postsynaptic density; Synapse (Kim, T.-W. (32) 36)

Acetylcholine receptor; Immunocytochemistry; Nicotinic receptor; Rat (Nakayama, H. (32) 321)

Cerebral cortical neurons
Nitric oxide; Peroxynitrite; Acetylcholine release; Hydroxyl radical; Hydroxyl radical scavenger (Ohkuma, S. (34) 347)

Diazepam binding inhibitor; Ethanol; mRNA expression (Katsura, M. (34) 355)

Cerebral ischemia
Hippocampus; Hybridization, in situ; Immediate-early gene (Wießner, C. (28) 353)

Fas antigen; Apoptosis; BALB/c mouse; Hybridization histochemistry, in situ (Matsuyama, T. (34) 166)

Stress (heat shock) protein; Stress (heat shock) response; Heat shock factor; Transcription; Brain (Higashi, T. (34) 262)

Heat shock protein; Stress proteins; Stroke; Glia; Neuronal death; Astrocyte; Microglia; Neurons; HSP70 (Gaspary, H. (34) 327)

c-*fos*
Central nervous system injury; Basic fibroblast growth factor; MK-801; NMDA (Kohmura, E. (28) 117)

Hyperthermia; Cortisol; Interleukin-1β; Corticotrophin releasing factor; mRNA; Sheep (Vellucci, S.V. (29) 64)

Transcription factor; Hyperosmolar stress; Cyclic AMP response element binding protein; Phosphorylation; Immediate-early gene (Shiromani, P.J. (29) 163)

Afterdischarge; Piriform cortex; Perirhinal cortex; *egr*-1 (Chiasson, B.J. (29) 191)

Dopamine; Cocaine; Dynorphin; Binge; *zif*/268; Hybridization, in situ; Nucleus accumbens; Transcription factor; Opioid peptide (Daunais, J.B. (29) 201)

Gene expression; Striatal compartment; Brain development; Dopamine D1 receptor; Receptor sensitization (Arnauld, E. (30) 223)

Nicotine; Gene expression; Adrenal gland; Jun; CREB (Hiremagalur, B. (32) 109)

Corticotropin-releasing factor; Paraventricular nucleus; Stress; Benzodiazepine (chlordia-

zepoxide); Heteronucleous RNA (Imaki, T. (32) 261)

Müller glia; Retinal pigment epithelium; Rat; Immediate-early gene; NGFI-A; Cell proliferation; Proliferative vitreoretinopathy (Jaynes, C.D. (32) 329)

2-Deoxy-D-glucose; Neuropeptide Y; Somatostatin; Growth hormone; Feeding; Hypothalamus; Hybridization, in situ (Minami, S. (33) 305)

Cyclic AMP response element binding protein; Cyclic AMP responsive element modulator; Inducible cAMP early repressor; Oxytocin; Vasopressin (Luckman, S.M. (34) 231)

C-*fos*
Excitotoxicity; Hippocampus; Laser confocal scanning microscopy; Glutamate receptors; Propidium iodide (Kasof, G.M. (34) 197)

Gene expression; Proenkephalin; Striatum; Transcription regulation (Ziółkowska, B. (34) 351)

c-*fos* related antigen
Enkephalin; Adrenal; Chromaffin; Nicotine; AP-1 (McMillian, M.K. (31) 210)

CFTR
Cystic fibrosis transmembrane conductance regulator; α_2 Adrenoceptor; β_2 Adrenoceptor; δ Opioid receptor; Protein kinase A; Adenylyl cyclase; Cyclic AMP (Birnbaum, A.K. (28) 72)

C6 glioma
Glutathione transferase; Brain; Transcription; Octamer; Luciferase (Abramovitz, M. (28) 37)

Chloramphenicol acetyltransferase
Enolase; Neuron; Gene; *Cis*-acting element; Expression; Cultured cell (Sakimura, K. (28) 19)

CHO cell
κ-Opioid receptor; G-protein; Adenylyl cyclase; Transfection; U50-488H; Dynorphin-A(1–17) (Prather, P.L. (29) 336)

Choline acetyltransferase
Basal ganglia; Striatum; Hybridization, in situ; Immunocytochemistry (Jongen-Rêlo, A.L. (28) 169)

Cholinergic expression
Gene regulation; Repressor element (Li, Y.-P. (30) 106)

Cholinergic transmission
Rat brain; Cerebral cortex; Hippocampus; Nicotinic acetylcholine receptor; In situ hybridization; Digoxigenin (Lobron, C. (30) 70)

Choline transport
Hemicholinium-3; Synaptotagmin; C2 domain; *Xenopus* oocyte (O'Regan, S. (32) 135)

Choroid plexus
5-HT_{2C} receptors; Glycosylation; Sialic acid; Serotonin; Antibodies (Backstrom, J.R. (33) 311)

Chromaffin
Enkephalin; Adrenal; Nicotine; c-*fos* related antigen; AP-1 (McMillian, M.K. (31) 210)

Chromatin
Histone H1°; Transcription; Cell nucleus; Neuron; Supraoptic nucleus (Lafarga, M. (29) 317)

Chromogranin A
Chromogranin B; Secretogranin II; Neuropeptide Y; Dopamine β-hydroxylase; Cytochrome b-561 (Tschernitz, C. (31) 131)

Chromogranin B
Chromogranin A; Secretogranin II; Neuropeptide Y; Dopamine β-hydroxylase; Cytochrome b-561 (Tschernitz, C. (31) 131)

Chromosome 14
Familial Alzheimer's disease; β-Amyloid precursor protein; β-Amyloid precursor protein mRNA; Linkage analysis (Querfurth, H.W. (28) 319)

Chronic ethanol treatment
N-Methyl-D-aspartate receptor subunit mRNA level; Upregulation (Follesa, P. (29) 99)

Chronic stress
Tyrosine hydroxylase; Norepinephrine; Locus coeruleus; Subordination; mRNA; In situ hybridization; Immunoautoradiography (Watanabe, Y. (32) 176)

Ciliary body
GABA transporter; Immunocytochemistry; Distribution; Antiserum; Retina; Retinal pigment epithelium (Honda, S. (33) 319)

Circadian rhythm
Serotonin; Corticosterone; Glucocorticoid receptor; Mineralocorticoid receptor; Serotonin 5-HT_{1A} receptor; Serotonin 5-HT_{2A} receptor; Serotonin 5-HT_{2C} receptor; Stress (Holmes, M.C. (28) 186)

Immediate-early gene; c-*jun*; AP-1; Glucocorticoid (Unlap, T. (28) 193)

Biological clock; Glutamate decarboxylase; Rho; mRNA; Northern analysis (O'Hara, B.F. (28) 239)

Suprachiasmatic nucleus; Vasoactive intestinal peptide; Constant darkness; Hybridization, in situ; Rat (Okamura, H. (29) 358)

Suprachiasmatic nucleus; Photoperiod; In situ hybridization; Vasopressin; Vasoactive intestinal peptide (Duncan, M.J. (32) 181)

Immediate-early gene; Entrainment; Light; SKF 38393; Hybridization, in situ (Weaver, D.R. (33) 136)

Circumventricular organ
Mouse Notch gene; Hybridization, in situ; Development; Ventricular zone (Higuchi, M. (29) 263)

***Cis*-acting element**
Enolase; Neuron; Gene; Expression; Chloramphenicol acetyltransferase; Cultured cell (Sakimura, K. (28) 19)

c-jun
Growth inhibitory factor; Facial nerve; Axotomy; Hybridization, in situ (Yuguchi, T. (28) 181)

Immediate-early gene; AP-1; Glucocorticoid; Circadian rhythm (Unlap, T. (28) 193)

Clonic–tonic convulsion
Fyn tyrosine kinase; Mutant mouse; Gene targeting; Audiogenic seizure; Acoustic priming; Wild running (Miyakawa, T. (28) 349)

Cloning
Glutamate transporter; Bovine retina; Electrogenic uptake (Inoue, K. (28) 343)

eph Family; *sek*; *eck*; *elk*; Receptor-tyrosine kinase; Developing brain (Mori, T. (29) 325)

Adrenergic β3 receptor; Human brain; PCR; Quantitative PCR; Sequence analysis (Rodriguez, M. (29) 369)

Eph family; Receptor tyrosine kinase; Developing brain; MDK1; Splicing variant (Mori, T. (34) 154)

Clusterin
Photoreceptor degeneration; Retina; *rd* Mouse; Gene expression (Jomary, C. (29) 172)

Apolipoprotein E; Apolipoprotein J; Alzheimer's disease; Apo E genotype; Hippocampus (Bertrand, P. (33) 174)

Cocaine
Dopamine; Dynorphin; Binge; *zif*/268; c-*fos*; Hybridization, in situ; Nucleus accumbens; Transcription factor; Opioid peptide (Daunais, J.B. (29) 201)

Dopamine D2 receptor; γ-Aminobutyric acid; Messenger RNA; Nucleus accumbens; Preproenkephalin; Preprotachykinin; Sensitization (Sorg, B.A. (29) 381)

Transporter; Promoter; Gene; Parkinson's disease (Donovan, D.M. (30) 327)

Cochlea
α-Parvalbumin; RT-PCR; Hybridization, in situ; Immunohistochemistry; Guinea pig (Soto-Prior, A. (34) 337)

Codon 102 mutation
Prion protein; Gerstmann-Sträussler syndrome; Codon 219 polymorphism (Furukawa, H. (30) 385)

Codon 219 polymorphism
Prion protein; Gerstmann-Sträussler syndrome; Codon 102 mutation (Furukawa, H. (30) 385)

Co-expression
trk receptor; Low-affinity neurotrophin receptor; Dorsal root ganglion neuron; In situ hybridization; Rat (Kashiba, H. (30) 158)

Compartment
Cyclic AMP; Basal ganglia; Dopamine; DARPP-32 (Sakagami, H. (33) 185)

Complex I
Parkinson's disease; Mitochondrion; Mitochondrial DNA; Nigrostriatal pathway; Oxidative damage; Point mutation; NADH dehydrogenase (Ikebe, S.-i. (28) 281)

Congenital
RC3/Neurogranin; Hypothyroidism; Corpus striatum; Hybridization, in situ; Goat (Piosik, P.A. (29) 119)

Conserved
Synapse; Novel protein; Drosophila; Musca; Calliphora (Reichmuth, C. (32) 45)

Constant darkness
Suprachiasmatic nucleus; Vasoactive intestinal peptide; Circadian rhythm; Hybridization, in situ; Rat (Okamura, H. (29) 358)

Convulsion
Cyclosporin A; Pentylenetetrazol; AP-1; TRE; Electrophoretic mobility-shift assay; Rat brain (Asanuma, M. (33) 29)

Corneal epithelium
Potassium channel; Hybridization, in situ; Retinal ganglion cell; Renal proximal tubule (Tsukahara, Y. (29) 376)

Corpus striatum
RC3/Neurogranin; Hypothyroidism; Congenital; Hybridization, in situ; Goat (Piosik, P.A. (29) 119)

Cortex
Immediate early gene; Zinc finger transcription factor; α-Adrenoceptor; Caudate putamen; Hippocampus; Hybridization histochemistry, in situ (Shen, P.-J. (28) 222)

Interleukin-1ß; mRNA; Northern blot; Injury; Fluid percussion (Fan, L. (30) 125)

Calbindin D28k; Calcium binding protein; Alzheimer's disease; In situ hybridization; Hippocampus (Maguire-Zeiss, K.A. (30) 362)

Cortical column
Environmental complexity; Immediate-early gene; ZENK; NGFI-A; Zif/268; Neuroanatomical plasticity (Wallace, C.S. (32) 211)

Cortical infarction
Acidic fibroblast growth factor; Astrocyte; Central nervous system; Nerve growth factor; Nucleus basalis magnocellularis; Rat cerebral cortex (Figueiredo, B.C. (33) 1)

Cortical maturation
GABAergic interneuron; In situ hybridization; Calcium-binding protein (De Lecea, L. (32) 1)

Cortical neuron
Ethanol; *N*-Methyl-D-aspartate receptor; Upregulation; Ca^{2+} (Hu, X.-J. (30) 347)

Corticosteroid
Stress; Testosterone; $GABA_A$ receptor subunit; Hippocampus; Hybridization, in situ (Orchinik, M. (34) 29)

Corticosteroid hormone
Serotonin 5-HT_{1a} receptor; Hippocampus; Corticosteroid receptor; Receptor regulation; Transcription (Zhong, P. (29) 23)

Corticosteroid receptor
Serotonin 5-HT_{1a} receptor; Hippocampus; Corticosteroid hormone; Receptor regulation; Transcription (Zhong, P. (29) 23)

Corticosterone
Serotonin; Glucocorticoid receptor; Mineralocorticoid receptor; Serotonin 5-HT_{1A} receptor; Serotonin 5-HT_{2A} receptor; Serotonin 5-HT_{2C} receptor; Circadian rhythm; Stress (Holmes, M.C. (28) 186)

Corticotrophin releasing factor
Hyperthermia; Cortisol; Interleukin-1β; c-*fos*; mRNA; Sheep (Vellucci, S.V. (29) 64)

Oxytocin; Sheep; Maternal behaviour; Hybridization, in situ; Progesterone; Oestrogen; Parturition (Broad, K.D. (29) 310)

Corticotropin-releasing factor
Paraventricular nucleus; Stress; Benzodiazepine (chlordiazepoxide); Heteronucleous RNA; c-*fos* (Imaki, T. (32) 261)

Cortisol
Hyperthermia; Interleukin-1β; c-*fos*; Corticotrophin releasing factor; mRNA; Sheep (Vellucci, S.V. (29) 64)

COUP-TF I
ARP-1; In situ hybridization; Orphan receptor; Nuclear hormone receptor; Transcription factor (Lopes da Silva, S. (30) 131)

CREB
Nicotine; Gene expression; Adrenal gland; c-*fos*; Jun (Hiremagalur, B. (32) 109)

Barrel cortex; *Fos*; *Jun*; Octamer; Visual cortex (Kaminska, B. (33) 295)

Cryptic promoter
Vasoactive intestinal polypeptide; Transgene; Quantitative PCR; *lacZ* (Tolentino, P.J. (33) 47)

CUB domain
Brain-specific expression; Seizure; Short consensus repeat; Differential screening; Membrane protein (Shimizu-Nishikawa, K. (28) 201)

Cultured cell
Enolase; Neuron; Gene; *Cis*-acting element; Expression; Chloramphenicol acetyltransferase (Sakimura, K. (28) 19)

Cyclic AMP
Cystic fibrosis transmembrane conductance regulator; CFTR; α_2 Adrenoceptor; β_2 Adrenoceptor; δ Opioid receptor; Protein kinase A; Adenylyl cyclase (Birnbaum, A.K. (28) 72)

Neuroblastoma; Opioid; Morphine; μ-Opioid receptor; Tolerance (Chakrabarti, S. (30) 269)

Basal ganglia; Dopamine; Compartment; DARPP-32 (Sakagami, H. (33) 185)

Tyrosine hydroxylase; Calcium; Gene expression; PC12; Phosphatidylinositide (Kim, K.S. (33) 254)

Cyclic AMP response element binding protein
Transcription factor; Hyperosmolar stress; Phosphorylation; Immediate-early gene; c-*fos* (Shiromani, P.J. (29) 163)

c-*fos*; Cyclic AMP responsive element modulator; Inducible cAMP early repressor; Oxytocin; Vasopressin (Luckman, S.M. (34) 231)

Cyclic AMP responsive element
Pro-enkephalin mRNA; Adenylyl cyclase; Opioid tolerance; Forskolin (Kluttz, B.W. (32) 313)

Cyclic AMP responsive element modulator
c-*fos*; Cyclic AMP response element binding protein; Inducible cAMP early repressor; Oxytocin; Vasopressin (Luckman, S.M. (34) 231)

Cycloheximide
Adrenergic; Induction; Gene expression; Nicotinic cholinergic receptor occupancy; Dimethylphenylpiperazinium; Anisomycin (Craviso, G.L. (29) 233)

Cyclosporin A
Pentylenetetrazol; Convulsion; AP-1; TRE; Electrophoretic mobility-shift assay; Rat brain (Asanuma, M. (33) 29)

Cysteamine
Astrocyte; Glioma; Heat shock protein; Heme oxygenase; Inclusion (Chopra, V.S. (31) 173)

Duodenal ulcer; VGF; In situ hybridization; Dorsal motor nucleus of vagus; Nucleus tractus solitarius; Nerve growth factor (Kanemasa, K. (32) 55)

Duodenal ulcer; VGF; Hybridization, in situ; Nucleus tractus solitarii; Dorsal motor nucleus of vagus (Kanemasa, K. (34) 309)

Cysteine string protein
cDNA cloning; Synaptic vesicle protein; Subcellular distribution; Fatty acylation (Mastrogiacomo, A. (28) 12)

Cystic fibrosis transmembrane conductance regulator
CFTR; α_2 Adrenoceptor; β_2 Adrenoceptor; δ Opioid receptor; Protein kinase A; Adenylyl cyclase; Cyclic AMP (Birnbaum, A.K. (28) 72)

Cytochrome b-561
Chromogranin A; Chromogranin B; Secretogranin II; Neuropeptide Y; Dopamine β-hydroxylase (Tschernitz, C. (31) 131)

Cytochrome P450
Steroidogenesis; Brain; Rat; Mouse; RT-PCR (Strömstedt, M. (34) 75)

D

D1
GAD65; GAD67; D2; Striatum; mRNA (Laprade, N. (34) 65)

D2
GAD65; GAD67; D1; Striatum; mRNA (Laprade, N. (34) 65)

DARPP-32
Cyclic AMP; Basal ganglia; Dopamine; Compartment (Sakagami, H. (33) 185)

DBH negative regulatory element
Dopamine β-hydroxylase; Silencer; Transcriptional regulation; Transient transfection (Ishiguro, H. (34) 251)

D1 dopamine receptor
Dopamine receptor; D2 dopamine receptor; D3 dopamine receptor; mRNA; Ribonuclease protection assay (Richtand, N.M. (33) 97)

D2 dopamine receptor
Dopamine receptor; D1 dopamine receptor; D3 dopamine receptor; mRNA; Ribonuclease protection assay (Richtand, N.M. (33) 97)

D3 dopamine receptor
Dopamine receptor; D1 dopamine receptor; D2 dopamine receptor; mRNA; Ribonuclease protection assay (Richtand, N.M. (33) 97)

Deafferentation
Neurotoxicity; Cell cycle; Alzheimer's disease; Hippocampus; Entorhinal cortex; Glutamate; Neurodegeneration (Poirier, J. (34) 57)

Degeneration
Aging; Uptake; Carrier; Transport; 5-Hydroxytryptamine; Raphe nucleus; Spinal cord; Hybridization, in situ (Meister, B. (33) 87)

Delta receptor
Astrocytes; Mu receptor; Kappa receptor; mRNA (Ruzicka, B.B. (34) 209)

Demyelination
Remyelination; Natural autoantibody; Theiler's virus; Myelin; Multiple sclerosis (Asakura, K. (34) 283)

Dentate granule cell
Neuropeptide Y; Single gene mutation; Peptide trafficking; Heat shock protein; NADPH-diaphorase; Glial fibrillary acidic protein; *Stargazer* (Chafetz, R.S. (31) 111)

Dentate gyrus
Long-term potentiation; Immediate early gene; Hippocampus; Awake rat (Abraham, W.C. (30) 367)

2-Deoxy-D-glucose
c-*fos*; Neuropeptide Y; Somatostatin; Growth hormone; Feeding; Hypothalamus; Hybridization, in situ (Minami, S. (33) 305)

Depolarization
Granin; Adenosine 3′,5′-cyclic monophosphate; Protein kinase C; Forskolin; Nerve growth factor; PC12 cells; Radioimmunoassay; Neurons; Primary cultures (Scammell, J.G. (33) 326)

Desensitization
Nicotinic receptor expression; Agonist potency; Agonist efficacy; Ganglionic antagonists; α Bungarotoxin; Muscarinic receptor (Wong, E.T. (28) 101)

Opioid receptor; G-protein; Phosphorylation; Calphostin C; Protein kinase C (Hayashi, C. (33) 347)

Developing brain
Bone morphogenetic protein; Transforming growth factor-β superfamily; Neurotrophic factor; Neuron; Ischemic brain (Tomizawa, K. (28) 122)

Cloning; *eph* Family; *sek*; *eck*; *elk*; Receptor-tyrosine kinase (Mori, T. (29) 325)

Cloning; Eph family; Receptor tyrosine kinase; MDK1; Splicing variant (Mori, T. (34) 154)

Development
Tryptophan hydroxylase mRNA; Rat pineal gland; Vimentin; Pinealocyte differentiation; Hybridization, in situ (Besançon, R. (29) 253)

Mouse Notch gene; Hybridization, in situ; Ventricular zone; Circumventricular organ (Higuchi, M. (29) 263)

Calmodulin gene III; Neuron; Gene expression; Central nervous system; Transgenic mouse (Shimoda, K. (31) 61)

Glucocorticoid; Medulla oblongata; Pons; Mesencephalon; Ribonuclease-protection assay (Keiger, C.J. (32) 75)

Nervous system; Embryology; Zeta (ζ) opioid receptor; Growth; Gene expression; Peptide; Enkephalin; Caudate putamen; Cerebellum; Brain development (Zagon, I.S. (33) 111)

Opioid; Insulin; Growth; Ornithine decarboxylase mRNA; Liver; Brain (Bartolome, J.V. (33) 149)

Phosphatidylinositol 3-kinase; Hybridization, in situ; Rat; Brain (Ito, Y. (34) 149)

Aromatase; Midbrain; Enzyme activity; mRNA; PCR (Raab, H. (34) 333)

Diabetes mellitus
Diabetic neuropathy; Substance P; Nerve growth factor; Iris; Trigeminal ganglion; Rat (Brewster, W.J. (29) 131)

Diabetic neuropathy
Diabetes mellitus; Substance P; Nerve growth factor; Iris; Trigeminal ganglion; Rat (Brewster, W.J. (29) 131)

Diazepam binding inhibitor
Ethanol; mRNA expression; Cerebral cortical neurons (Katsura, M. (34) 355)

Dichlorokynurenate
Glutamate receptor; *N*-Methyl-D-aspartate receptor; Baculovirus; *N*-Glycosylation; ζ1 Subunit; Ion channel; *Spodoptera frugiperda* insect cell (Kawamoto, S. (30) 137)

Differential screening
Brain-specific expression; Seizure; Short consensus repeat; CUB domain; Membrane protein (Shimizu-Nishikawa, K. (28) 201)

Differential splicing
N-Methyl-D-aspartate receptor subunit; mRNA expression; Locus coeruleus; Hybridization histochemistry, in situ (Luque, J.M. (29) 224)

Neurofibrillary tangle; Tau protein; Polymerase chain reaction; Neurite varicosity (Pizzi, M. (34) 38)

Differentiation
Alzheimer's disease; β-Amyloid precursor protein; Gene regulation; Promoter; Growth factor; Interleukin-1; Retinoic acid; PC12 cell (Lahiri, D.K. (32) 233)

Digoxigenin
Intermediate filament; Phosphorylation; Evolution; cDNA (Jacobs, A.J. (29) 43)

Rat brain; Cerebral cortex; Hippocampus; Cholinergic transmission; Nicotinic acetylcholine receptor; In situ hybridization (Lobron, C. (30) 70)

G-protein coupled receptors; Hybridization, in situ; RT-PCR; Riboprobes (Schindler, M. (34) 321)

Diisopropylfluorophosphonate
Organophosphate; Oxime reaction; Acetylcholinesterase; Butyrylcholinesterase; Pyridine-2-aldoxime methiodide (Schwarz, M. (31) 101)

Dimethylphenylpiperazinium
Adrenergic; Induction; Gene expression; Nicotinic cholinergic receptor occupancy; Cycloheximide; Anisomycin (Craviso, G.L. (29) 233)

Distribution
Dopamine D5 receptor; Dopamine D2 receptor; Dopamine D1 receptor; Monkey brain; Ribonuclease protection assay (Choi, W.S. (31) 86)

GABA transporter; Immunocytochemistry; Antiserum; Retina; Ciliary body; Retinal pigment epithelium (Honda, S. (33) 319)

cDNA
$GABA_A$ receptor subunit; mRNA; Polymerase chain reaction; Northern blot; Southern blot; Splice variant; Calmodulin-dependent protein kinase II (McKinley, D.D. (28) 175)

Intermediate filament; Phosphorylation; Evolution; Digoxigenin (Jacobs, A.J. (29) 43)

Embryonal carcinoma cell; Retinoic acid; Neural differentiation; Gene trap; Proteoglycan; Post-transcriptional regulation (Imai, Y. (31) 1)

DNA binding
AP-1; Transcription factor; Kainate; Neuronal plasticity (Pennypacker, K.R. (34) 161)

cDNA cloning
Synaptic vesicle protein; Subcellular distribution; Fatty acylation; Cysteine string protein (Mastrogiacomo, A. (28) 12)

Selenoprotein; TGA codon; His-Pro rich domain; Brain; Bovine; Rat (Saijoh, K. (30) 301)

Phospholipase C; Polymerase chain reaction; Hybridization, in situ; Automated DNA sequencing (Abogadie, F.C. (31) 10)

Tissue-specific expression; Northern analysis; Lymphocyte activation; Gene activation (Wick, M.J. (32) 342)

DNA fragmentation
Apoptosis; Transient middle cerebral artery occlusion; Mouse (Li, Y. (28) 164)

DNA ladder
Necrosis; Apoptosis; Microglial activation; Infarction; Selective neuronal death; Hypoxia-ischemia (Beilharz, E.J. (29) 1)

cDNA sequence
Neurofilament; Single gene copy; Human fetal brain; NF-66; NF-L; NF-M (Chan, S.-O. (29) 177)

Dopamine
Dopamine D_1 receptor; Dopamine D_2 receptor; Dopamine D_2 mRNA; Hybridization, in situ; Neural graft; Neonatal lesion; Receptor autoradiography (Mennicken, F. (28) 211)

Cocaine; Dynorphin; Binge; *zif/268*; c-*fos*; Hybridization, in situ; Nucleus accumbens; Transcription factor; Opioid peptide (Daunais, J.B. (29) 201)

GTP-binding protein; Splicing; Polyadenylation; Striatum; Dopamine D1 receptor; Intron (Hervé, D. (32) 125)

Tyrosine hydroxylase; Estrogen receptor; Hybridization, in situ; PCR; Midbrain; Sex differentiation; Nigrostriatal system (Raab, H. (33) 157)

Cyclic AMP; Basal ganglia; Compartment; DARPP-32 (Sakagami, H. (33) 185)

Neurotensin receptor; SR 48692; Up-regulation; Antagonist; mRNA (Yamada, M. (33) 343)

Dopamine β-hydroxylase
Chromogranin A; Chromogranin B; Secretogranin II; Neuropeptide Y; Cytochrome b-561 (Tschernitz, C. (31) 131)

DBH negative regulatory element; Silencer; Transcriptional regulation; Transient transfection (Ishiguro, H. (34) 251)

Dopamine D_2 mRNA
Dopamine; Dopamine D_1 receptor; Dopamine D_2 receptor; Hybridization, in situ; Neural graft; Neonatal lesion; Receptor autoradiography (Mennicken, F. (28) 211)

Dopamine D_1 receptor
Dopamine; Dopamine D_2 receptor; Dopamine D_2 mRNA; Hybridization, in situ; Neural graft; Neonatal lesion; Receptor autoradiography (Mennicken, F. (28) 211)

Dopamine D1 receptor
c-*fos*; Gene expression; Striatal compartment; Brain development; Receptor sensitization (Arnauld, E. (30) 223)

Dopamine D5 receptor; Dopamine D2 receptor; Distribution; Monkey brain; Ribonuclease protection assay (Choi, W.S. (31) 86)

GTP-binding protein; Splicing; Polyadenylation; Striatum; Dopamine; Intron (Hervé, D. (32) 125)

Dopamine D_{1A} receptor
Regulatory sequence; Transgenic mouse; β-Galactosidase (Severynse, D.M. (30) 336)

Dopamine D_2 receptor
Dopamine; Dopamine D_1 receptor; Dopamine D_2 mRNA; Hybridization, in situ; Neural graft; Neonatal lesion; Receptor autoradiography (Mennicken, F. (28) 211)

Dopamine D2 receptor
Cocaine; γ-Aminobutyric acid; Messenger RNA; Nucleus accumbens; Preproenkephalin; Preprotachykinin; Sensitization (Sorg, B.A. (29) 381)

Dopamine D5 receptor; Dopamine D1 receptor; Distribution; Monkey brain; Ribonuclease protection assay (Choi, W.S. (31) 86)

Dopamine D5 receptor
Dopamine D2 receptor; Dopamine D1 receptor; Distribution; Monkey brain; Ribonuclease protection assay (Choi, W.S. (31) 86)

Dopamine receptor
Southern blot hybridization; Restriction fragment length polymorphism; Inbred strain (Scott, A.W. (29) 347)

D1 dopamine receptor; D2 dopamine receptor; D3 dopamine receptor; mRNA; Ribonuclease protection assay (Richtand, N.M. (33) 97)

Dopamine receptors
RT-PCR; mRNA; Quantification (Vrana, S.L. (34) 127)

Dopamine release
Ribozyme; GAP-43; PC12 cell (Imaizumi, K. (32) 338)

Dopamine transmission
Monoamine; Striatum; Enkephalin; Quantitative in situ hybridization (Jaber, M. (32) 156)

L-DOPA treatment
Neuropeptide; Gene expression; Basal ganglia; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Primate; Behavioural recovery (Jolkkonen, J. (32) 297)

Dorsal motor nucleus of vagus
Cysteamine; Duodenal ulcer; VGF; In situ hybridization; Nucleus tractus solitarius; Nerve growth factor (Kanemasa, K. (32) 55)

Cysteamine; Duodenal ulcer; VGF; Hybridization, in situ; Nucleus tractus solitarii (Kanemasa, K. (34) 309)

Dorsal root ganglia
Somatostatin receptor 3; Spinal cord; RT-PCR; Hybridization, in situ (Señaris, R.M. (29) 185)

Opioid receptor; Morphine; Substance P; Preprotachykinin A; Double in situ hybridization; Primary afferent (Minami, M. (30) 203)

Dorsal root ganglion neuron
trk receptor; Low-affinity neurotrophin receptor; Co-expression; In situ hybridization; Rat (Kashiba, H. (30) 158)

In situ hybridization; mRNA; Ion channel subunit; Peripheral nervous system (Oh, Y. (30) 357)

Double in situ hybridization
Opioid receptor; Morphine; Substance P; Preprotachykinin A; Dorsal root ganglia; Primary afferent (Minami, M. (30) 203)

Double labeling
Growth associated protein; In situ hybridization; GFAP (Yao, G.L. (30) 373)

Down-regulation
Glutamate receptor; Synaptogenesis; Goldfish; Visual system; Gene expression (Ueda, H. (32) 151)

Neuroblastoma cell; δ-Opioid receptor; Subtractive cDNA cloning (Wick, M.J. (32) 171)

Drosophila
Syntaxin; Dsynt1; Synaptic transmission; Synaptic proteins; Neurotransmitter release (Cerezo, J.R. (29) 245)

Synapse; Novel protein; Conserved; Musca; Calliphora (Reichmuth, C. (32) 45)

Dsynt1
Syntaxin; *Drosophila*; Synaptic transmission; Synaptic proteins; Neurotransmitter release (Cerezo, J.R. (29) 245)

Duodenal ulcer
Cysteamine; VGF; In situ hybridization; Dorsal motor nucleus of vagus; Nucleus tractus solitarius; Nerve growth factor (Kanemasa, K. (32) 55)

Cysteamine; VGF; Hybridization, in situ; Nucleus tractus solitarii; Dorsal motor nucleus of vagus (Kanemasa, K. (34) 309)

Dynorphin
Dopamine; Cocaine; Binge; *zif/268*; c-*fos*; Hybridization, in situ; Nucleus accumbens; Transcription factor; Opioid peptide (Daunais, J.B. (29) 201)

Dynorphin-A(1–17)
κ-Opioid receptor; G-protein; Adenylyl cyclase; CHO cell; Transfection; U50-488H (Prather, P.L. (29) 336)

E

apoE
Mouse apoD; Rat apoD; Tissue distribution; Nerve regeneration; LCAT; GCDFP-24 (Séguin, D. (30) 242)

eck
Cloning; *eph* Family; *sek*; *elk*; Receptor-tyrosine kinase; Developing brain (Mori, T. (29) 325)

Editing
Kindling; Epileptogenesis; Seizure; Hippocampus; Glutamate receptor subunit; RNA (Kamphuis, W. (29) 35)

egr-1
Afterdischarge; Piriform cortex; Perirhinal cortex; c-*fos* (Chiasson, B.J. (29) 191)

egr-3
Hippocampus; Spreading depression; mRNA; NGFI-A; NGFI-B; NGFI-C; Nurr1 (Honkaniemi, J. (28) 157)

Electroconvulsive
Rat brain; Seizure; Neuropeptide Y; Somatostatin; mRNA expression; Hybridization histochemistry, in situ (Zachrisson, O. (31) 71)

Electrogenic uptake
Glutamate transporter; Bovine retina; Cloning (Inoue, K. (28) 343)

Electrophoretic mobility-shift assay
Cyclosporin A; Pentylenetetrazol; Convulsion; AP-1; TRE; Rat brain (Asanuma, M. (33) 29)

Electrophysiology
GAP-43; PC12 cell; Calcium channel (Gribkoff, V.K. (30) 29)

elk
Cloning; *eph* Family; *sek*; *eck*; Receptor-tyrosine kinase; Developing brain (Mori, T. (29) 325)

Embryology
Nervous system; Development; Zeta (ζ) opioid receptor; Growth; Gene expression; Peptide; Enkephalin; Caudate putamen; Cerebellum; Brain development (Zagon, I.S. (33) 111)

Embryonal carcinoma cell
Retinoic acid; Neural differentiation; Gene trap; Proteoglycan; cDNA; Post-transcriptional regulation (Imai, Y. (31) 1)

Embryonal stem cell
Neurofilament protein; Neuritogenesis; NF triplet; NF-66; Peripherin; GAP-43 (Chiu, F.-C. (30) 77)

Endothelial cell
Adenosine; Gene expression; Porcine brain; Vascular permeability factor (Fischer, S. (28) 141)

Enkephalin
6-Hydroxydopamine; Hybridization, in situ; Prefrontal cortical transection; Rat; Substance P; Transplantation (Campbell, K. (29) 273)

Adrenal; Chromaffin; Nicotine; c-*fos* related antigen; AP-1 (McMillian, M.K. (31) 210)

Monoamine; Dopamine transmission; Striatum; Quantitative in situ hybridization (Jaber, M. (32) 156)

Nervous system; Development; Embryology; Zeta (ζ) opioid receptor; Growth; Gene expression; Peptide; Caudate putamen; Cerebellum; Brain development (Zagon, I.S. (33) 111)

Enolase
Neuron; Gene; *Cis*-acting element; Expression; Chloramphenicol acetyltransferase; Cultured cell (Sakimura, K. (28) 19)

Entorhinal cortex
Neurotoxicity; Cell cycle; Alzheimer's disease; Hippocampus; Deafferentation; Glutamate; Neurodegeneration (Poirier, J. (34) 57)

Entorhinal cortex lesion
Neural cell adhesion molecule; Transient ischemia; Neuronal sprouting; Synaptogenesis; Reactive astrocyte; Hippocampus; Rat; Immunohistochemistry; Hybridization, in situ (Jucker, M. (28) 149)

Entrainment
Circadian rhythm; Immediate-early gene; Light; SKF 38393; Hybridization, in situ (Weaver, D.R. (33) 136)

Environmental complexity
Immediate-early gene; ZENK; NGFI-A; Zif/268; Cortical column; Neuroanatomical plasticity (Wallace, C.S. (32) 211)

Enzyme activity
Aromatase; Midbrain; Development; mRNA; PCR (Raab, H. (34) 333)

Eph family
Cloning; Receptor tyrosine kinase; Developing brain; MDK1; Splicing variant (Mori, T. (34) 154)

Epilepsy
Hybridization, in situ; Plasticity; Gene expression; $GABA_A$ receptor subunit mRNA; Hippocampus (Kamphuis, W. (31) 33)

Protein kinase; mRNA; Hilus lesion; Activity-dependent regulation (Murray, K.D. (32) 221)

Apoptosis; Sulphated glycoprotein 2; Brain (Dragunow, M. (32) 279)

Agrin; Synapse; Synaptic plasticity; Learning and memory; Seizure; Gene expression (O'Connor, L.T. (33) 277)

Epileptogenesis
Kindling; Seizure; Hippocampus; Glutamate receptor subunit; RNA; Editing (Kamphuis, W. (29) 35)

ERK
MAP kinase; MEK; PKA; MAPKK; Axotomy; Injury (Kiryu, S. (29) 147)

Estradiol
$GABA_A$ receptor; Hippocampus; Progesterone; 3α-OH-5α-pregnan-20-one (Weiland, N.G. (32) 271)

Gonadotropin releasing hormone receptor; Testosterone; Inositol phosphate; Hippocampus; Rat (Jennes, L. (33) 104)

Estrogen
β-Preprotachykinin mRNA; Hybridization, in situ; Ventromedial nucleus of the hypothalamus (Priest, C.A. (28) 61)

Preproenkephalin; Ventromedial hypothalamic nucleus; mRNA; Hybridization, in situ; Acute estrogen; Reproductive behavior (Priest, C.A. (28) 251)

Estrogen receptor
Tyrosine hydroxylase; Hybridization, in situ; PCR; Midbrain; Sex differentiation; Dopamine; Nigrostriatal system (Raab, H. (33) 157)

Estrous cycle
Preproenkephalin mRNA; Hybridization, in situ; Ventromedial hypothalamus; Calcineurin; Glyceraldehyde-3-phosphate-dehydrogenase (Funabashi, T. (28) 129)

ε4 subunit
N-Methyl-D-aspartate receptor channel; Glutamate receptor; Gene targeting; Whisker-related neuronal pattern; Spontaneous behavioral activity; Exploratory behavior (Ikeda, K. (33) 61)

Ethanol
N-Methyl-D-aspartate receptor; Upregulation; Ca^{2+}; Cortical neuron (Hu, X.-J. (30) 347)

Diazepam binding inhibitor; mRNA expression; Cerebral cortical neurons (Katsura, M. (34) 355)

Evolution
Intermediate filament; Phosphorylation; Digoxigenin; cDNA (Jacobs, A.J. (29) 43)

Excitatory amino acid
Hypothalamus; Androgen; Glutamate; *N*-Methyl-D-aspartate; NMDAR1; Castration; MK-801; Lateral septum; Supraoptic nucleus; mRNA (Kus, L. (28) 55)

Excitotoxicity
Hippocampus; Laser confocal scanning microscopy; Glutamate receptors; Propidium iodide; C-*fos* (Kasof, G.M. (34) 197)

Exon
STEP; Protein tyrosine phosphatase; Striatum; Alternative splicing; Intron; Genomic organization (Sharma, E. (32) 87)

Exon 2
L1CAM; Hydrocephalus; Splicing; Alternative mRNA (Jouet, M. (30) 378)

Exploratory behavior
ε4 subunit; *N*-Methyl-D-aspartate receptor channel; Glutamate receptor; Gene targeting; Whisker-related neuronal pattern; Spontaneous behavioral activity (Ikeda, K. (33) 61)

Expression
Enolase; Neuron; Gene; *Cis*-acting element; Chloramphenicol acetyltransferase; Cultured cell (Sakimura, K. (28) 19)

External germinal layer
Insulin-like growth factor I; Cerebellar development; Weaver mutant mouse; Gene expression (Lee, W.-H. (30) 259)

F

F3
Cell adhesion; Neural morphogenesis; Gene organization; Promoter region (Buttiglione, M. (29) 297)

Facial nerve
Growth inhibitory factor; Axotomy; Hybridization, in situ; c-*jun* (Yuguchi, T. (28) 181)

Familial Alzheimer's disease
β-Amyloid precursor protein; β-Amyloid precursor protein mRNA; Chromosome 14; Linkage analysis (Querfurth, H.W. (28) 319)

***eph* Family**
Cloning; *sek*; *eck*; *elk*; Receptor-tyrosine kinase; Developing brain (Mori, T. (29) 325)

Fas antigen
Apoptosis; Cerebral ischemia; BALB/c mouse; Hybridization histochemistry, in situ (Matsuyama, T. (34) 166)

Fatty acylation
cDNA cloning; Synaptic vesicle protein; Subcellular distribution; Cysteine string protein (Mastrogiacomo, A. (28) 12)

Feeding
Antisense oligonucleotide; G-protein; Food intake; Meal pattern; Anorexia; Nervous system;

Intracerebroventricular administration; Rat (Plata-Salamán, C.R. (33) 72)

c-*fos*; 2-Deoxy-D-glucose; Neuropeptide Y; Somatostatin; Growth hormone; Hypothalamus; Hybridization, in situ (Minami, S. (33) 305)

FGF-9
mRNA; Gene expression; Rat brain; In situ hybridization (Tagashira, S. (30) 233)

Fibroblast growth factor
Seizure; Kainate; Adrenal steroid; mRNA; Hippocampus (Riva, M.A. (34) 190)

Fibroblast growth factor receptor
mRNA; Rat; Brain; Cerebellum; Gene expression; Hybridization, in situ (Miyake, A. (31) 95)

Fluid percussion
Interleukin-1β; mRNA; Northern blot; Cortex; Injury (Fan, L. (30) 125)

Fluorescence immunohistochemistry
Gene expression; Rhodamine latex microsphere; Neocortex; Ventrolateral thalamus (Senatorov, V.V. (30) 87)

Focal cerebral ischemia
mRNA expression; Inositol 1,4,5-trisphosphate receptor; Inositol 1,4,5-trisphosphate 3-kinase; In situ hybridization; Reperfusion; Calcium homeostasis (Zhang, S.X. (32) 252)

Food intake
Antisense oligonucleotide; G-protein; Feeding; Meal pattern; Anorexia; Nervous system; Intracerebroventricular administration; Rat (Plata-Salamán, C.R. (33) 72)

Forskolin
Pro-enkephalin mRNA; Adenylyl cyclase; Opioid tolerance; Cyclic AMP responsive element (Kluttz, B.W. (32) 313)

Granin; Adenosine 3′,5′-cyclic monophosphate; Protein kinase C; Depolarization; Nerve growth factor; PC12 cells; Radioimmunoassay; Neurons; Primary cultures (Scammell, J.G. (33) 326)

Fos
Barrel cortex; CREB; *Jun*; Octamer; Visual cortex (Kaminska, B. (33) 295)

Haloperidol; Pilocarpine; Fos B; c-Jun; Jun B; Krox 20; Krox 24; Tardive dyskinesia (MacGibbon, G.A. (34) 294)

c-Fos
Serotonin 5-HT_2 receptor; Transcription factor; Glucocorticoid receptor; Promoter; c-Jun; AP-1; Luciferase; Transcription (Garlow, S.J. (31) 201)

Fos B
Haloperidol; Pilocarpine; Fos; c-Jun; Jun B; Krox 20; Krox 24; Tardive dyskinesia (MacGibbon, G.A. (34) 294)

Free radical
c-*fos* mRNA; hsp70 mRNA; Traumatic brain injury; Superoxide dismutase; Transgenic mouse; Spreading depression (Mikawa, S. (33) 288)

Full-length cDNA cloning
Human dopamine D4 receptor; Tissue distribution; Retina; Tandem repeat; Improved polymerase chain reaction (Matsumoto, M. (29) 157)

Fyn tyrosine kinase
Mutant mouse; Gene targeting; Audiogenic seizure; Acoustic priming; Wild running; Clonic–tonic convulsion (Miyakawa, T. (28) 349)

G

$GABA_A$
γ-Aminobutyric acid; Glutamate; AMPA; Receptor; Salivary gland (Shida, T. (33) 261)

$GABA_A$ receptor
Glutamate receptor; Plasticity; Cerebellar granule neuron; Nuclear run-on; Transcription (Harris, B.T. (28) 338)

Phosphorylation; Protein tyrosine kinase; Src oncogene protein pp60v; Tyrosine kinase inhibitor; Tyrphostin; Genistein (Valenzuela, C.F. (31) 165)

Hippocampus; Progesterone; Estradiol; 3α-OH-5α-pregnan-20-one (Weiland, N.G. (32) 271)

Hybridization, in situ; Immunocytochemistry; Oxytocin; Vasopressin; Supraoptic nucleus; Hypothalamic paraventricular nucleus (Fenelon, V.S. (34) 45)

$GABA_A$ receptor subunit
cDNA; mRNA; Polymerase chain reaction; Northern blot; Southern blot; Splice variant; Calmodulin-dependent protein kinase II (McKinley, D.D. (28) 175)

Stress; Corticosteroid; Testosterone; Hippocampus; Hybridization, in situ (Orchinik, M. (34) 29)

$GABA_A$ receptor subunit mRNA
Epilepsy; Hybridization, in situ; Plasticity; Gene expression; Hippocampus (Kamphuis, W. (31) 33)

GABAergic interneuron
In situ hybridization; Cortical maturation; Calcium-binding protein (De Lecea, L. (32) 1)

GABA transporter
Immunocytochemistry; Distribution; Antiserum; Retina; Ciliary body; Retinal pigment epithelium (Honda, S. (33) 319)

GAD65
GAD67; D1; D2; Striatum; mRNA (Laprade, N. (34) 65)

GAD67
GAD65; D1; D2; Striatum; mRNA (Laprade, N. (34) 65)

β-Galactosidase
Dopamine D_{1A} receptor; Regulatory sequence; Transgenic mouse (Severynse, D.M. (30) 336)

Herpes virus; Vector; Central nervous system; Hippocampus; Latent; Gene therapy (Bloom, D.C. (31) 48)

Galanin
Receptor; G protein; Galantide; M35; M40; C7; Rin14B cells (Parker, E.M. (34) 179)

Galantide
Galanin; Receptor; G protein; M35; M40; C7; Rin14B cells (Parker, E.M. (34) 179)

Ganglion cell
Amacrine cell; Nitric oxide synthase; Acetylcholine; Tyrosine hydroxylase; Gene induction (Koistinaho, J. (29) 53)

Ganglionic antagonists
Nicotinic receptor expression; Agonist potency; Agonist efficacy; α Bungarotoxin; Desensitization; Muscarinic receptor (Wong, E.T. (28) 101)

GAP-43
Anti-peptide antibody; Calcium homeostasis; Calmodulin; Granule cell; Immunocytochemistry; Hybridization, in situ; mRNA; Oligonucleotide probe; Purkinje cell (Eakin, T.J. (29) 71)

PC12 cell; Electrophysiology; Calcium channel (Gribkoff, V.K. (30) 29)

Neurofilament protein; Embryonal stem cell; Neuritogenesis; NF triplet; NF-66; Peripherin (Chiu, F.-C. (30) 77)

Ribozyme; PC12 cell; Dopamine release (Imaizumi, K. (32) 338)

Hybridization, in situ; Timm's stain; Kainic acid; Mossy fiber sprouting; Protein F1; Pentobarbital; MK-801; *N*-Methyl-D-aspartate receptor; Seizure; Axonal growth; Hippocampus (McNamara, R.K. (33) 22)

Protein F1; Protein kinase C; Long-term potentiation; Hippocampus; CA3; Gene expression (Meberg, P.J. (34) 343)

GCDFP-24
Mouse apoD; Rat apoD; Tissue distribution; Nerve regeneration; apoE; LCAT (Séguin, D. (30) 242)

GDNF
Neurotrophic factor; RT-PCR; mRNA splicing; Precursor protein; Rat brain (Cristina, N. (32) 354)

Gene
Enolase; Neuron; *Cis*-acting element; Expression; Chloramphenicol acetyltransferase; Cultured cell (Sakimura, K. (28) 19)

Transporter; Promoter; Parkinson's disease; Cocaine (Donovan, D.M. (30) 327)

Gene activation
cDNA cloning; Tissue-specific expression; Northern analysis; Lymphocyte activation (Wick, M.J. (32) 342)

Gene expression
Adenosine; Endothelial cell; Porcine brain; Vascular permeability factor (Fischer, S. (28) 141)

Hybridization, in situ; Brain mapping; Neuropeptide (Weaver, D.R. (28) 296)

Infarction; Astrocyte; Microglia; IGF-II; IGF-I; Wound repair (Beilharz, E.J. (29) 81)

Apolipoprotein E; Genotype; Senile plaque; Neurofibrillary tangle; Cerebral amyloid angiopathy; β-Amyloid protein precursor; Tau (Oyama, F. (29) 92)

Brain development; Neuronal plasticity; Helix-loop-helix (Chiaramello, A. (29) 107)

Clusterin; Photoreceptor degeneration; Retina; *rd* Mouse (Jomary, C. (29) 172)

AMPA receptor; Glutamate; Human brain; Hybridization, in situ; Messenger RNA; Schizophrenia (Eastwood, S.L. (29) 211)

Adrenergic; Induction; Nicotinic cholinergic receptor occupancy; Dimethylphenylpiperazinium; Cycloheximide; Anisomycin (Craviso, G.L. (29) 233)

Fluorescence immunohistochemistry; Rhodamine latex microsphere; Neocortex; Ventrolateral thalamus (Senatorov, V.V. (30) 87)

c-*fos*; Striatal compartment; Brain development; Dopamine D1 receptor; Receptor sensitization (Arnauld, E. (30) 223)

FGF-9; mRNA; Rat brain; In situ hybridization (Tagashira, S. (30) 233)

Insulin-like growth factor I; Cerebellar development; Weaver mutant mouse; External germinal layer (Lee, W.-H. (30) 259)

3β-Hydroxysteroid dehydrogenase/Δ^5-Δ^4-isomerase; Progesterone; Rat brain; Neurosteroid; In situ hybridization (Guennoun, R. (30) 287)

Id gene; bHLH protein (Zhu, W. (30) 312)

Epilepsy; Hybridization, in situ; Plasticity; $GABA_A$ receptor subunit mRNA; Hippocampus (Kamphuis, W. (31) 33)

Calmodulin gene III; Neuron; Central nervous system; Transgenic mouse; Development (Shimoda, K. (31) 61)

Fibroblast growth factor receptor; mRNA; Rat; Brain; Cerebellum; Hybridization, in situ (Miyake, A. (31) 95)

Ca^{2+}/calmodulin kinase II; Hybridization, in situ; Hippocampal dentate gyrus (Johnston, H.M. (31) 141)

Nicotine; Adrenal gland; c-*fos*; Jun; CREB (Hiremagalur, B. (32) 109)

Glutamate receptor; Synaptogenesis; Down-regulation; Goldfish; Visual system (Ueda, H. (32) 151)

Neurofilament; Intron; Intermediate filament; Immunoblotting (Hsu, C. (32) 241)

Neuropeptide; Basal ganglia; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Primate; Behavioural recovery; L-DOPA treatment (Jolkkonen, J. (32) 297)

Nervous system; Development; Embryology; Zeta (ζ) opioid receptor; Growth; Peptide; Enkephalin; Caudate putamen; Cerebellum; Brain development (Zagon, I.S. (33) 111)

Opioid peptide; Morphine; Tolerance; Neonate; Neuropeptide; Proenkephalin mRNA (Tempel, A. (33) 227)

Tyrosine hydroxylase; Calcium; Cyclic AMP; PC12; Phosphatidylinositide (Kim, K.S. (33) 254)

Agrin; Synapse; Synaptic plasticity; Learning and memory; Seizure; Epilepsy (O'Connor, L.T. (33) 277)

Receptor, α-adrenergic; Pain; Hybridization, in situ; mRNA; Parasympathetic nervous system; Spinal cord; Sympathetic nervous system (Smith, M.S. (34) 109)

Protein F1; GAP-43; Protein kinase C; Long-term potentiation; Hippocampus; CA3 (Meberg, P.J. (34) 343)

C-*fos*; Proenkephalin; Striatum; Transcription regulation (Ziółkowska, B. (34) 351)

Gene induction
Amacrine cell; Ganglion cell; Nitric oxide synthase; Acetylcholine; Tyrosine hydroxylase (Koistinaho, J. (29) 53)

Gene organization
F3; Cell adhesion; Neural morphogenesis; Promoter region (Buttiglione, M. (29) 297)

Gene regulation
Repressor element; Cholinergic expression (Li, Y.-P. (30) 106)

Alzheimer's disease; β-Amyloid precursor protein; Promoter; Growth factor; Interleukin-1; Retinoic acid; PC12 cell; Differentiation (Lahiri, D.K. (32) 233)

S100β; S-100; β-Amyloid; Alzheimer's disease; Trophic factor; Gliosis; Astrocytes; Transcription; Calcium-binding protein (Peña, L.A. (34) 118)

Gene targeting
Fyn tyrosine kinase; Mutant mouse; Audiogenic seizure; Acoustic priming; Wild running; Clonic–tonic convulsion (Miyakawa, T. (28) 349)

ε4 subunit; *N*-Methyl-D-aspartate receptor channel; Glutamate receptor; Whisker-related neuronal pattern; Spontaneous behavioral activity; Exploratory behavior (Ikeda, K. (33) 61)

Gene therapy
Vectors; Neuron; Astrocyte; Protein targeting; Neurovirology (Lowenstein, P.R. (30) 169)

Herpes virus; Vector; Central nervous system; Hippocampus; Latent; β-Galactosidase (Bloom, D.C. (31) 48)

Huntington's disease; Parkinson's disease; Aging; Motor performance; Neurotransmitter receptor (Ikari, H. (34) 315)

Genetic variation
Serotonin-1E receptor; Single strand conformational analysis; Mutation analysis; Single base substitution (Shimron-Abarbanell, D. (29) 387)

Gene trap
Embryonal carcinoma cell; Retinoic acid; Neural differentiation; Proteoglycan; cDNA; Post-transcriptional regulation (Imai, Y. (31) 1)

Genistein
$GABA_A$ receptor; Phosphorylation; Protein tyrosine kinase; Src oncogene protein pp60v; Tyrosine kinase inhibitor; Tyrphostin (Valenzuela, C.F. (31) 165)

Genomic organization
STEP; Protein tyrosine phosphatase; Striatum; Alternative splicing; Exon; Intron (Sharma, E. (32) 87)

Genotype
Apolipoprotein E; Senile plaque; Neurofibrillary tangle; Cerebral amyloid angiopathy; β-Amyloid protein precursor; Tau; Gene expression (Oyama, F. (29) 92)

Gerstmann–Sträussler syndrome
Bcl-2; Bax; Prion protein; Neurodegeneration; Two-hybrid system (Kurschner, C. (30) 165)

Prion protein; Codon 102 mutation; Codon 219 polymorphism (Furukawa, H. (30) 385)

GFAP
Growth associated protein; Double labeling; In situ hybridization (Yao, G.L. (30) 373)

Glia
γ-Aminobutyric acid transporter; Hybridization, in situ; mRNA; Meninges; Brain (Durkin, M.M. (33) 7)

Heat shock protein; Stress proteins; Stroke; Cerebral ischemia; Neuronal death; Astrocyte; Microglia; Neurons; HSP70 (Gaspary, H. (34) 327)

Glial fibrillary acidic protein
mRNA; Astrocyte; Brain; Bone marrow (Zelenika, D. (30) 251)

Neuropeptide Y; Single gene mutation; Peptide trafficking; Dentate granule cell; Heat shock protein; NADPH-diaphorase; *Stargazer* (Chafetz, R.S. (31) 111)

Glioma
Astrocyte; Cysteamine; Heat shock protein; Heme oxygenase; Inclusion (Chopra, V.S. (31) 173)

Gliosis
S100β; S-100; β-Amyloid; Alzheimer's disease; Trophic factor; Astrocytes; Gene regulation; Transcription; Calcium-binding protein (Peña, L.A. (34) 118)

Glucocorticoid
Immediate-early gene; c-*jun*; AP-1; Circadian rhythm (Unlap, T. (28) 193)

Nerve growth factor; Neurotrophin-3; Oestrogen; Hippocampus; Neuron (Scully, J.L. (31) 158)

Development; Medulla oblongata; Pons; Mesencephalon; Ribonuclease-protection assay (Keiger, C.J. (32) 75)

Regeneration; Axotomy; Rat; RNA stability (Yao, G.L. (32) 308)

Glucocorticoid receptor
Serotonin; Corticosterone; Mineralocorticoid receptor; Serotonin 5-HT_{1A} receptor; Serotonin 5-HT_{2A} receptor; Serotonin 5-HT_{2C} receptor; Circadian rhythm; Stress (Holmes, M.C. (28) 186)

Serotonin 5-HT_2 receptor; Transcription factor; Promoter; c-Fos; c-Jun; AP-1; Luciferase; Transcription (Garlow, S.J. (31) 201)

Glutamate
Excitatory amino acid; Hypothalamus; Androgen; *N*-Methyl-D-aspartate; NMDAR1; Castration; MK-801; Lateral septum; Supraoptic nucleus; mRNA (Kus, L. (28) 55)

N-Methyl-D-aspartate; MK-801; Striatum; Nucleus accumbens; Neuropeptide mRNA (Angulo, J.A. (29) 15)

AMPA receptor; Gene expression; Human brain; Hybridization, in situ; Messenger RNA; Schizophrenia (Eastwood, S.L. (29) 211)

γ-Aminobutyric acid; $GABA_A$; AMPA; Receptor; Salivary gland (Shida, T. (33) 261)

Neurotoxicity; Cell cycle; Alzheimer's disease; Hippocampus; Deafferentation; Entorhinal cortex; Neurodegeneration (Poirier, J. (34) 57)

Glutamate decarboxylase
Biological clock; Circadian rhythm; Rho; mRNA; Northern analysis (O'Hara, B.F. (28) 239)

Glutamate receptor
$GABA_A$ receptor; Plasticity; Cerebellar granule neuron; Nuclear run-on; Transcription (Harris, B.T. (28) 338)

N-Methyl-D-aspartate receptor; Baculovirus; Dichlorokynurenate; *N*-Glycosylation; ζ1 Subunit; Ion channel; *Spodoptera frugiperda* insect cell (Kawamoto, S. (30) 137)

Synaptogenesis; Down-regulation; Goldfish; Visual system; Gene expression (Ueda, H. (32) 151)

ε4 subunit; *N*-Methyl-D-aspartate receptor channel; Gene targeting; Whisker-related neuronal pattern; Spontaneous behavioral activity; Exploratory behavior (Ikeda, K. (33) 61)

Excitotoxicity; Hippocampus; Laser confocal scanning microscopy; Propidium iodide; C-*fos* (Kasof, G.M. (34) 197)

Glutamate receptor subunit
Kindling; Epileptogenesis; Seizure; Hippocampus; RNA; Editing (Kamphuis, W. (29) 35)

Glutamate transporter
Bovine retina; Cloning; Electrogenic uptake (Inoue, K. (28) 343)

Glutathione transferase
Brain; Transcription; Octamer; Luciferase; C6 glioma (Abramovitz, M. (28) 37)

Glyceraldehyde-3-phosphate-dehydrogenase
Estrous cycle; Preproenkephalin mRNA; Hybridization, in situ; Ventromedial hypothalamus; Calcineurin (Funabashi, T. (28) 129)

Glycogen synthase kinase 3
Alzheimer's disease; Tau protein; Protein phosphatase 1; Protein phosphatase 2A; MAP kinase (Baum, L. (34) 1)

Glycosylation
5-HT_{2C} receptors; Sialic acid; Choroid plexus; Serotonin; Antibodies (Backstrom, J.R. (33) 311)

***N*-Glycosylation**
Glutamate receptor; *N*-Methyl-D-aspartate receptor; Baculovirus; Dichlorokynurenate; ζ1 Subunit; Ion channel; *Spodoptera frugiperda* insect cell (Kawamoto, S. (30) 137)

Goat
RC3/Neurogranin; Hypothyroidism; Congenital; Corpus striatum; Hybridization, in situ (Piosik, P.A. (29) 119)

Goldfish
Glutamate receptor; Synaptogenesis; Down-regulation; Visual system; Gene expression (Ueda, H. (32) 151)

Gonadal steroid
RNase protection; In situ hybridization; Sexual differentiation (O'Keefe, J.A. (30) 115)

Calcitonin gene-related peptide; Hybridization, in situ; Medial preoptic nucleus; Sexual dimorphism (Herbison, A.E. (34) 143)

Gonadotropin releasing hormone receptor
Estradiol; Testosterone; Inositol phosphate; Hippocampus; Rat (Jennes, L. (33) 104)

G-protein
κ-Opioid receptor; Adenylyl cyclase; CHO cell; Transfection; U50-488H; Dynorphin-A(1–17) (Prather, P.L. (29) 336)

Opioid receptor; Phospholipase C; Signal transduction; *Xenopus* oocyte; Protein kinase inhibitor (Ueda, H. (32) 166)

Antisense oligonucleotide; Feeding; Food intake; Meal pattern; Anorexia; Nervous system; Intracerebroventricular administration; Rat (Plata-Salamán, C.R. (33) 72)

Opioid receptor; Phosphorylation; Calphostin C; Protein kinase C; Desensitization (Hayashi, C. (33) 347)

Galanin; Receptor; Galantide; M35; M40; C7; Rin14B cells (Parker, E.M. (34) 179)

G-protein coupled receptors
Hybridization, in situ; RT-PCR; Digoxigenin; Riboprobes (Schindler, M. (34) 321)

Granin
Adenosine 3′,5′-cyclic monophosphate; Protein kinase C; Depolarization; Forskolin; Nerve growth factor; PC12 cells; Radioimmunoassay; Neurons; Primary cultures (Scammell, J.G. (33) 326)

Granule cell
Anti-peptide antibody; Calcium homeostasis; Calmodulin; GAP-43; Immunocytochemistry; Hybridization, in situ; mRNA; Oligonucleotide probe; Purkinje cell (Eakin, T.J. (29) 71)

Growth
Nervous system; Development; Embryology; Zeta (ζ) opioid receptor; Gene expression; Peptide; Enkephalin; Caudate putamen; Cerebellum; Brain development (Zagon, I.S. (33) 111)

Opioid; Insulin; Development; Ornithine decarboxylase mRNA; Liver; Brain (Bartolome, J.V. (33) 149)

Growth arrest
Neuronal differentiation; Octamer binding protein; Oct-1; Oct-2 (Lakin, N.D. (28) 47)

Growth associated protein
Double labeling; In situ hybridization; GFAP (Yao, G.L. (30) 373)

Growth factor
Alzheimer's disease; β-Amyloid precursor protein; Gene regulation; Promoter; Interleukin-1; Retinoic acid; PC12 cell; Differentiation (Lahiri, D.K. (32) 233)

Growth hormone
c-*fos*; 2-Deoxy-D-glucose; Neuropeptide Y; Somatostatin; Feeding; Hypothalamus; Hybridization, in situ (Minami, S. (33) 305)

Growth inhibitory factor
Facial nerve; Axotomy; Hybridization, in situ; c-*jun* (Yuguchi, T. (28) 181)

GTP-binding protein
Splicing; Polyadenylation; Striatum; Dopamine; Dopamine D1 receptor; Intron (Hervé, D. (32) 125)

Guinea pig
α-Parvalbumin; RT-PCR; Hybridization, in situ; Immunohistochemistry; Cochlea (Soto-Prior, A. (34) 337)

H

pH
Human brain; Post-mortem; mRNA preservation; Hybridization, in situ (Kingsbury, A.E. (28) 311)

Haloperidol
Pilocarpine; Fos; Fos B; c-Jun; Jun B; Krox 20; Krox 24; Tardive dyskinesia (MacGibbon, G.A. (34) 294)

δ-HCH
Calmodulin; Calmodulin gene expression; CaM I; CaM II; Lindane; γ-HCH (Barrón, S. (30) 279)

γ-HCH
Calmodulin; Calmodulin gene expression; CaM I; CaM II; Lindane; δ-HCH (Barrón, S. (30) 279)

HCNP
Hippocampal cholinergic neurostimulating peptide; Acetylcholine synthesis; Phos-

phatidylethanolamine-binding protein; Opioid-binding associated protein; Nucleotide sequence (Tohdoh, N. (30) 381)

Heat shock element
Alzheimer's disease; β-Amyloid precursor protein; Transcriptional regulation; Stress response (Dewji, N.N. (33) 245)

Heat shock factor
Stress (heat shock) protein; Stress (heat shock) response; Transcription; Cerebral ischemia; Brain (Higashi, T. (34) 262)

Heat shock protein
Heme oxygenase; Neuron; Neuronal injury; Astrocyte; Oxidative injury; Stress protein (Dwyer, B.E. (30) 37)

Neuropeptide Y; Single gene mutation; Peptide trafficking; Dentate granule cell; NADPH-diaphorase; Glial fibrillary acidic protein; *Stargazer* (Chafetz, R.S. (31) 111)

Astrocyte; Cysteamine; Glioma; Heme oxygenase; Inclusion (Chopra, V.S. (31) 173)

Stress proteins; Stroke; Cerebral ischemia; Glia; Neuronal death; Astrocyte; Microglia; Neurons; HSP70 (Gaspary, H. (34) 327)

Helix-loop-helix
Brain development; Neuronal plasticity; Gene expression (Chiaramello, A. (29) 107)

Heme oxygenase
Neuron; Neuronal injury; Astrocyte; Oxidative injury; Stress protein; Heat shock protein (Dwyer, B.E. (30) 37)

Astrocyte; Cysteamine; Glioma; Heat shock protein; Inclusion (Chopra, V.S. (31) 173)

Hemicholinium-3
Choline transport; Synaptotagmin; C2 domain; *Xenopus* oocyte (O'Regan, S. (32) 135)

Herpes virus
Vector; Central nervous system; Hippocampus; Latent; β-Galactosidase; Gene therapy (Bloom, D.C. (31) 48)

Heteronucleous RNA
Corticotropin-releasing factor; Paraventricular nucleus; Stress; Benzodiazepine (chlordiazepoxide); c-*fos* (Imaki, T. (32) 261)

HGF
c-Met; Neurotrophic factor; Induced cerebral ischemia; Immunohistochemistry; In situ hybridization (Honda, S. (32) 197)

[^{3}H]Idazoxan binding
Imidazoline receptor; Idazoxan binding site; Solubilization and protein purification; Immunoblot; Rat brain (Escribá, P.V. (32) 187)

Hilus lesion
Protein kinase; mRNA; Epilepsy; Activity-dependent regulation (Murray, K.D. (32) 221)

Hippocampal cholinergic neurostimulating peptide
HCNP; Acetylcholine synthesis; Phosphatidylethanolamine-binding protein; Opioid-binding associated protein; Nucleotide sequence (Tohdoh, N. (30) 381)

Hippocampal dentate gyrus
Ca^{2+}/calmodulin kinase II; Hybridization, in situ; Gene expression (Johnston, H.M. (31) 141)

Hippocampus
Arcuate nucleus; Locus coeruleus; Neuropeptide Y mRNA; Adrenalectomy; Type I receptor; Adrenal steroid receptor Type II; Hybridization, in situ (Watanabe, Y. (28) 135)

Neural cell adhesion molecule; Transient ischemia; Entorhinal cortex lesion; Neuronal sprouting; Synaptogenesis; Reactive astrocyte; Rat; Immunohistochemistry; Hybridization, in situ (Jucker, M. (28) 149)

Spreading depression; mRNA; NGFI-A; NGFI-B; NGFI-C; *egr*-3; Nurr1 (Honkaniemi, J. (28) 157)

Immediate early gene; Zinc finger transcription factor; α-Adrenoceptor; Cortex; Caudate putamen; Hybridization histochemistry, in situ (Shen, P.-J. (28) 222)

Neurotrophic factor; Hybridization, in situ; Cerebral cortex; Cerebellum (Schulz, N.T. (28) 273)

Cerebral ischemia; Hybridization, in situ; Immediate-early gene (Wießner, C. (28) 353)

Serotonin 5-HT_{1a} receptor; Corticosteroid hormone; Corticosteroid receptor; Receptor regulation; Transcription (Zhong, P. (29) 23)

Kindling; Epileptogenesis; Seizure; Glutamate receptor subunit; RNA; Editing (Kamphuis, W. (29) 35)

Neurotrophic factor; Transfection (Ueda, S. (29) 365)

Rat brain; Cerebral cortex; Cholinergic transmission; Nicotinic acetylcholine receptor; In situ hybridization; Digoxigenin (Lobron, C. (30) 70)

Calbindin D28k; Calcium binding protein; Alzheimer's disease; In situ hybridization; Cortex (Maguire-Zeiss, K.A. (30) 362)

Long-term potentiation; Immediate early gene; Dentate gyrus; Awake rat (Abraham, W.C. (30) 367)

AMPA receptor; Human brain; Cerebellum; Hybridization, in situ; Immunocytochemistry (Day, N.C. (31) 17)

Epilepsy; Hybridization, in situ; Plasticity; Gene expression; $GABA_A$ receptor subunit mRNA (Kamphuis, W. (31) 33)

Herpes virus; Vector; Central nervous system; Latent; β-Galactosidase; Gene therapy (Bloom, D.C. (31) 48)

Nerve growth factor; Neurotrophin-3; Glucocorticoid; Oestrogen; Neuron (Scully, J.L. (31) 158)

Radioimmunocytochemistry; Mouse; Cerebellum; Ventral tegmental area; Cellular protein quantitation; Neuroblastoma; Calbindin-D_{28k} (Ng, M.C. (32) 82)

$GABA_A$ receptor; Progesterone; Estradiol; 3α-OH-5α-pregnan-20-one (Weiland, N.G. (32) 271)

Hybridization, in situ; Timm's stain; Kainic acid; Mossy fiber sprouting; Protein F1; GAP-43; Pentobarbital; MK-801; *N*-Methyl-D-aspartate receptor; Seizure; Axonal growth (McNamara, R.K. (33) 22)

Gonadotropin releasing hormone receptor; Estradiol; Testosterone; Inositol phosphate; Rat (Jennes, L. (33) 104)

Apolipoprotein E; Apolipoprotein J; Clusterin; Alzheimer's disease; Apo E genotype (Bertrand, P. (33) 174)

Stress; Corticosteroid; Testosterone; $GABA_A$ receptor subunit; Hybridization, in situ (Orchinik, M. (34) 29)

Neurotoxicity; Cell cycle; Alzheimer's disease; Deafferentation; Entorhinal cortex; Glutamate; Neurodegeneration (Poirier, J. (34) 57)

Fibroblast growth factor; Seizure; Kainate; Adrenal steroid; mRNA (Riva, M.A. (34) 190)

Excitotoxicity; Laser confocal scanning microscopy; Glutamate receptors; Propidium iodide; C-*fos* (Kasof, G.M. (34) 197)

Protein F1; GAP-43; Protein kinase C; Long-term potentiation; CA3; Gene expression (Meberg, P.J. (34) 343)

His-Pro rich domain
cDNA cloning; Selenoprotein; TGA codon; Brain; Bovine; Rat (Saijoh, K. (30) 301)

Histone H1°
Chromatin; Transcription; Cell nucleus; Neuron; Supraoptic nucleus (Lafarga, M. (29) 317)

bHLH protein
Id gene; Gene expression (Zhu, W. (30) 312)

Hormone receptor superfamily
Transcription factor; Neurone (Matsui, T. (33) 217)

HSP70
Heat shock protein; Stress proteins; Stroke; Cerebral ischemia; Glia; Neuronal death; Astrocyte; Microglia; Neurons (Gaspary, H. (34) 327)

5-HT_{1A} receptor
Buspirone; 5-HT_{2A} receptor; In situ hybridization; Receptor autoradiography; Rat hippocampus; Receptor up-and down-regulation (Chen, H. (32) 348)

5-HT_{2A} receptor
Buspirone; 5-HT_{1A} receptor; In situ hybridization; Receptor autoradiography; Rat hippocampus; Receptor up-and down-regulation (Chen, H. (32) 348)

5-HT_{2C} receptors
Glycosylation; Sialic acid; Choroid plexus; Serotonin; Antibodies (Backstrom, J.R. (33) 311)

Human
Neuronal; Calcium channel; Cerebellum (Volsen, S.G. (34) 271)

Human brain
Alternative splicing; Calcium; Calcium homeostasis; Calcium ATPase; Polymerase chain re-

action; Tissue distribution (Zacharias, D.A. (28) 263)

Post-mortem; pH; mRNA preservation; Hybridization, in situ (Kingsbury, A.E. (28) 311)

AMPA receptor; Gene expression; Glutamate; Hybridization, in situ; Messenger RNA; Schizophrenia (Eastwood, S.L. (29) 211)

Adrenergic β3 receptor; PCR; Quantitative PCR; Cloning; Sequence analysis (Rodriguez, M. (29) 369)

AMPA receptor; Hippocampus; Cerebellum; Hybridization, in situ; Immunocytochemistry (Day, N.C. (31) 17)

Human dopamine D4 receptor
Full-length cDNA cloning; Tissue distribution; Retina; Tandem repeat; Improved polymerase chain reaction (Matsumoto, M. (29) 157)

Human fetal brain
Neurofilament; cDNA sequence; Single gene copy; NF-66; NF-L; NF-M (Chan, S.-O. (29) 177)

Huntington's disease
Nuclear localization; Immunofluorescent microscopy; Reporter gene expression (Bessert, D.A. (33) 165)

Parkinson's disease; Aging; Motor performance; Neurotransmitter receptor; Gene therapy (Ikari, H. (34) 315)

Hybridization histochemistry, in situ
Calretinin; Medial vestibular nucleus; Sensory deprivation (Sans, N. (28) 1)

Immediate early gene; Zinc finger transcription factor; α-Adrenoceptor; Cortex; Caudate putamen; Hippocampus (Shen, P.-J. (28) 222)

N-Methyl-D-aspartate receptor subunit; Differential splicing; mRNA expression; Locus coeruleus (Luque, J.M. (29) 224)

Rat brain; Seizure; Electroconvulsive; Neuropeptide Y; Somatostatin; mRNA expression (Zachrisson, O. (31) 71)

Fas antigen; Apoptosis; Cerebral ischemia; BALB/c mouse (Matsuyama, T. (34) 166)

Hybridization, in situ
β-Preprotachykinin mRNA; Estrogen; Ventromedial nucleus of the hypothalamus (Priest, C.A. (28) 61)

Estrous cycle; Preproenkephalin mRNA; Ventromedial hypothalamus; Calcineurin; Glyceraldehyde-3-phosphate-dehydrogenase (Funabashi, T. (28) 129)

Hippocampus; Arcuate nucleus; Locus coeruleus; Neuropeptide Y mRNA; Adrenalectomy; Type I receptor; Adrenal steroid receptor Type II (Watanabe, Y. (28) 135)

Neural cell adhesion molecule; Transient ischemia; Entorhinal cortex lesion; Neuronal sprouting; Synaptogenesis; Reactive astrocyte; Hippocampus; Rat; Immunohistochemistry (Jucker, M. (28) 149)

Basal ganglia; Striatum; Choline acetyltransferase; Immunocytochemistry (Jongen-Rêlo, A.L. (28) 169)

Growth inhibitory factor; Facial nerve; Axotomy; c-*jun* (Yuguchi, T. (28) 181)

Dopamine; Dopamine D_1 receptor; Dopamine D_2 receptor; Dopamine D_2 mRNA; Neural graft; Neonatal lesion; Receptor autoradiography (Mennicken, F. (28) 211)

Preproenkephalin; Ventromedial hypothalamic nucleus; mRNA; Estrogen; Acute estrogen; Reproductive behavior (Priest, C.A. (28) 251)

Neurotrophic factor; Cerebral cortex; Hippocampus; Cerebellum (Schulz, N.T. (28) 273)

Brain mapping; Neuropeptide; Gene expression (Weaver, D.R. (28) 296)

Human brain; Post-mortem; pH; mRNA preservation (Kingsbury, A.E. (28) 311)

Hippocampus; Cerebral ischemia; Immediate-early gene (Wießner, C. (28) 353)

Anti-peptide antibody; Calcium homeostasis; Calmodulin; GAP-43; Granule cell; Immunocytochemistry; mRNA; Oligonucleotide probe; Purkinje cell (Eakin, T.J. (29) 71)

RC3/Neurogranin; Hypothyroidism; Congenital; Corpus striatum; Goat (Piosik, P.A. (29) 119)

Somatostatin receptor 3; Spinal cord; Dorsal root ganglia; RT-PCR (Señaris, R.M. (29) 185)

Dopamine; Cocaine; Dynorphin; Binge; *zif*/268; c-*fos*; Nucleus accumbens; Transcription factor; Opioid peptide (Daunais, J.B. (29) 201)

AMPA receptor; Gene expression; Glutamate; Human brain; Messenger RNA; Schizophrenia (Eastwood, S.L. (29) 211)

Tryptophan hydroxylase mRNA; Development; Rat pineal gland; Vimentin; Pinealocyte differentiation (Besançon, R. (29) 253)

Mouse Notch gene; Development; Ventricular zone; Circumventricular organ (Higuchi, M. (29) 263)

Enkephalin; 6-Hydroxydopamine; Prefrontal cortical transection; Rat; Substance P; Transplantation (Campbell, K. (29) 273)

Tyrosine hydroxylase; Tyrosine hydroxylase mRNA; Tyrosine hydroxylase hnRNA; Parkinson's disease; 6-Hydroxydopamine; Intron-directed in situ hybridization; Substantia nigra (Sherman, T.G. (29) 285)

Corticotrophin releasing factor; Oxytocin; Sheep; Maternal behaviour; Progesterone; Oestrogen; Parturition (Broad, K.D. (29) 310)

Suprachiasmatic nucleus; Vasoactive intestinal peptide; Constant darkness; Circadian rhythm; Rat (Okamura, H. (29) 358)

Potassium channel; Retinal ganglion cell; Corneal epithelium; Renal proximal tubule (Tsukahara, Y. (29) 376)

Serotonin; 5-Hydroxytryptamine; Caudate-putamen; 6-Hydroxydopamine; Neuronal plasticity (Numan, S. (29) 391)

Voltage-dependent calcium channel; α1-Subunit; β-Subunit; Localization; Rat; Brain (Tanaka, O. (30) 1)

Phospholipase C; cDNA cloning; Polymerase chain reaction; Automated DNA sequencing (Abogadie, F.C. (31) 10)

AMPA receptor; Human brain; Hippocampus; Cerebellum; Immunocytochemistry (Day, N.C. (31) 17)

Epilepsy; Plasticity; Gene expression; $GABA_A$ receptor subunit mRNA; Hippocampus (Kamphuis, W. (31) 33)

Fibroblast growth factor receptor; mRNA; Rat; Brain; Cerebellum; Gene expression (Miyake, A. (31) 95)

Ca^{2+}/calmodulin kinase II; Gene expression; Hippocampal dentate gyrus (Johnston, H.M. (31) 141)

γ-Aminobutyric acid transporter; mRNA; Glia; Meninges; Brain (Durkin, M.M. (33) 7)

Timm's stain; Kainic acid; Mossy fiber sprouting; Protein F1; GAP-43; Pentobarbital; MK-801; *N*-Methyl-D-aspartate receptor; Seizure; Axonal growth; Hippocampus (McNamara, R.K. (33) 22)

Low density lipoprotein receptor-related protein; α_2-Macroglobulin; Apolipoprotein E; Alzheimer's disease; Central nervous system (Ishiguro, M. (33) 37)

Aging; Degeneration; Uptake; Carrier; Transport; 5-Hydroxytryptamine; Raphe nucleus; Spinal cord (Meister, B. (33) 87)

Purkinje cell; Staggerer mouse; Reeler mouse; Protein phosphatase; mRNA (Guo, H. (33) 121)

Circadian rhythm; Immediate-early gene; Entrainment; Light; SKF 38393 (Weaver, D.R. (33) 136)

Tyrosine hydroxylase; Estrogen receptor; PCR; Midbrain; Sex differentiation; Dopamine; Nigrostriatal system (Raab, H. (33) 157)

c-*fos*; 2-Deoxy-D-glucose; Neuropeptide Y; Somatostatin; Growth hormone; Feeding; Hypothalamus (Minami, S. (33) 305)

Stress; Corticosteroid; Testosterone; $GABA_A$ receptor subunit; Hippocampus (Orchinik, M. (34) 29)

$GABA_A$ receptor; Immunocytochemistry; Oxytocin; Vasopressin; Supraoptic nucleus; Hypothalamic paraventricular nucleus (Fenelon, V.S. (34) 45)

Bone; Ion channel; Immunocytochemistry (Black, J.A. (34) 89)

Receptor, α-adrenergic; Pain; Gene expression; mRNA; Parasympathetic nervous system; Spinal cord; Sympathetic nervous system (Smith, M.S. (34) 109)

Angiotensin; Receptor; AT_1; Vasopressin; Rat brain; Hypothalamus (Lenkei, Z. (34) 135)

Calcitonin gene-related peptide; Gonadal steroid; Medial preoptic nucleus; Sexual dimorphism (Herbison, A.E. (34) 143)

Phosphatidylinositol 3-kinase; Rat; Brain; Development (Ito, Y. (34) 149)

Morphine; Opiate tolerance; Synapsin I mRNA; Locus coeruleus; Amygdala; Spinal cord (Matus-Leibovitch, N. (34) 221)

Ion channel; Action potential electrogenesis (Sashihara, S. (34) 239)

Neuropeptide Y Y_1 receptor; Transfected cells; Autoradiography (Tong, Y. (34) 303)

Cysteamine; Duodenal ulcer; VGF; Nucleus tractus solitarii; Dorsal motor nucleus of vagus (Kanemasa, K. (34) 309)

G-protein coupled receptors; RT-PCR; Digoxigenin; Riboprobes (Schindler, M. (34) 321)

α-Parvalbumin; RT-PCR; Immunohistochemistry; Cochlea; Guinea pig (Soto-Prior, A. (34) 337)

Hydrocephalus
L1CAM; Splicing; Alternative mRNA; Exon 2 (Jouet, M. (30) 378)

6-Hydroxydopamine
Enkephalin; Hybridization, in situ; Prefrontal cortical transection; Rat; Substance P; Transplantation (Campbell, K. (29) 273)

Tyrosine hydroxylase; Tyrosine hydroxylase mRNA; Tyrosine hydroxylase hnRNA; Parkinson's disease; Hybridization, in situ; Intron-directed in situ hybridization; Substantia nigra (Sherman, T.G. (29) 285)

Serotonin; 5-Hydroxytryptamine; Caudate-putamen; Hybridization, in situ; Neuronal plasticity (Numan, S. (29) 391)

Hydroxyl radical
Nitric oxide; Peroxynitrite; Acetylcholine release; Hydroxyl radical scavenger; Cerebral cortical neurons (Ohkuma, S. (34) 347)

Hydroxyl radical scavenger
Nitric oxide; Peroxynitrite; Acetylcholine release; Hydroxyl radical; Cerebral cortical neurons (Ohkuma, S. (34) 347)

3β-Hydroxysteroid dehydrogenase / Δ^5-Δ^4-isomerase
Progesterone; Gene expression; Rat brain; Neurosteroid; In situ hybridization (Guennoun, R. (30) 287)

5-Hydroxytryptamine
Serotonin; Caudate-putamen; 6-Hydroxydopamine; Hybridization, in situ; Neuronal plasticity (Numan, S. (29) 391)

Aging; Degeneration; Uptake; Carrier; Transport; Raphe nucleus; Spinal cord; Hybridization, in situ (Meister, B. (33) 87)

Hyperosmolar stress
Transcription factor; Cyclic AMP response element binding protein; Phosphorylation; Immediate-early gene; c-*fos* (Shiromani, P.J. (29) 163)

Hyperthermia
Cortisol; Interleukin-1β; c-*fos*; Corticotrophin releasing factor; mRNA; Sheep (Vellucci, S.V. (29) 64)

Hypothalamic paraventricular nucleus
$GABA_A$ receptor; Hybridization, in situ; Immunocytochemistry; Oxytocin; Vasopressin; Supraoptic nucleus (Fenelon, V.S. (34) 45)

Hypothalamo-hypophysial system
Neuropeptide; Hypothalamus; Trefoil factor; P-domain; P-type (Probst, J.C. (33) 269)

Hypothalamus
Excitatory amino acid; Androgen; Glutamate; *N*-Methyl-D-aspartate; NMDAR1; Castration; MK-801; Lateral septum; Supraoptic nucleus; mRNA (Kus, L. (28) 55)

Sry; Y chromosome; Sexual dimorphism; Mammal; Midbrain (Lahr, G. (33) 179)

Neuropeptide; Trefoil factor; P-domain; P-type; Hypothalamo-hypophysial system (Probst, J.C. (33) 269)

c-*fos*; 2-Deoxy-D-glucose; Neuropeptide Y; Somatostatin; Growth hormone; Feeding; Hybridization, in situ (Minami, S. (33) 305)

Angiotensin; Receptor; AT_1; Vasopressin; Rat brain; Hybridization, in situ (Lenkei, Z. (34) 135)

Hypothyroidism
RC3/Neurogranin; Congenital; Corpus striatum; Hybridization, in situ; Goat (Piosik, P.A. (29) 119)

Hypoxia-ischemia
Necrosis; Apoptosis; Microglial activation; Infarction; Selective neuronal death; DNA ladder (Beilharz, E.J. (29) 1)

I

Idazoxan binding site
Imidazoline receptor; Solubilization and protein purification; [^{3}H]Idazoxan binding; Immunoblot; Rat brain (Escribá, P.V. (32) 187)

Id gene
bHLH protein; Gene expression (Zhu, W. (30) 312)

IEG / DRG neuron
PCR; Single cell (Sheng, H.Z. (30) 196)

IGF-I
Infarction; Astrocyte; Microglia; IGF-II; Gene expression; Wound repair (Beilharz, E.J. (29) 81)

IGF-II
Infarction; Astrocyte; Microglia; IGF-I; Gene expression; Wound repair (Beilharz, E.J. (29) 81)

IGF mRNA
Somatomedin; Neurotrophic factor; Axon; Nerve regeneration (Pu, S.-F. (34) 18)

Imidazoline receptor
Idazoxan binding site; Solubilization and protein purification; [^{3}H]Idazoxan binding; Immunoblot; Rat brain (Escribá, P.V. (32) 187)

Immediate-early gene
Learning; Memory (Williams, J. (28) 87)

c-*jun*; AP-1; Glucocorticoid; Circadian rhythm (Unlap, T. (28) 193)

Zinc finger transcription factor; α-Adrenoceptor; Cortex; Caudate putamen; Hippocampus; Hybridization histochemistry, in situ (Shen, P.-J. (28) 222)

Hippocampus; Cerebral ischemia; Hybridization, in situ (Wießner, C. (28) 353)

Transcription factor; Hyperosmolar stress; Cyclic AMP response element binding protein; Phosphorylation; c-*fos* (Shiromani, P.J. (29) 163)

Axotomy; Retinal ganglion cell; Regeneration; Transcription factor; Peripheral nerve grafting (Robinson, G.A. (30) 61)

Long-term potentiation; Dentate gyrus; Hippocampus; Awake rat (Abraham, W.C. (30) 367)

Environmental complexity; ZENK; NGFI-A; Zif/268; Cortical column; Neuroanatomical plasticity (Wallace, C.S. (32) 211)

Müller glia; Retinal pigment epithelium; Rat; NGFI-A; c-*fos*; Cell proliferation; Proliferative vitreoretinopathy (Jaynes, C.D. (32) 329)

Circadian rhythm; Entrainment; Light; SKF 38393; Hybridization, in situ (Weaver, D.R. (33) 136)

Immunoassay
Immunocross-reactivity; Microtubule associated protein tau; Alzheimer's disease; Neurofibrillary pathology; Paired helical filament (Del C. Alonso, A. (31) 194)

Immunoautoradiography
Tyrosine hydroxylase; Norepinephrine; Locus coeruleus; Subordination; Chronic stress; mRNA; In situ hybridization (Watanabe, Y. (32) 176)

Immunoblot
Imidazoline receptor; Idazoxan binding site; Solubilization and protein purification; [^{3}H]Idazoxan binding; Rat brain (Escribá, P.V. (32) 187)

Immunoblotting
Neurofilament; Gene expression; Intron; Intermediate filament (Hsu, C. (32) 241)

Immunocross-reactivity
Immunoassay; Microtubule associated protein tau; Alzheimer's disease; Neurofibrillary

pathology; Paired helical filament (Del C. Alonso, A. (31) 194)

Immunocytochemistry
Basal ganglia; Striatum; Choline acetyltransferase; Hybridization, in situ (Jongen-Rêlo, A.L. (28) 169)

Anti-peptide antibody; Calcium homeostasis; Calmodulin; GAP-43; Granule cell; Hybridization, in situ; mRNA; Oligonucleotide probe; Purkinje cell (Eakin, T.J. (29) 71)

AMPA receptor; Human brain; Hippocampus; Cerebellum; Hybridization, in situ (Day, N.C. (31) 17)

Acetylcholine receptor; Cerebral cortex; Nicotinic receptor; Rat (Nakayama, H. (32) 321)

GABA transporter; Distribution; Antiserum; Retina; Ciliary body; Retinal pigment epithelium (Honda, S. (33) 319)

$GABA_A$ receptor; Hybridization, in situ; Oxytocin; Vasopressin; Supraoptic nucleus; Hypothalamic paraventricular nucleus (Fenelon, V.S. (34) 45)

Bone; Ion channel; Hybridization, in situ (Black, J.A. (34) 89)

Immunofluorescent microscopy
Huntington disease; Nuclear localization; Reporter gene expression (Bessert, D.A. (33) 165)

Immunohistochemistry
Neural cell adhesion molecule; Transient ischemia; Entorhinal cortex lesion; Neuronal sprouting; Synaptogenesis; Reactive astrocyte; Hippocampus; Rat; Hybridization, in situ (Jucker, M. (28) 149)

HGF; c-Met; Neurotrophic factor; Induced cerebral ischemia; In situ hybridization (Honda, S. (32) 197)

α-Parvalbumin; RT-PCR; Hybridization, in situ; Cochlea; Guinea pig (Soto-Prior, A. (34) 337)

Improved polymerase chain reaction
Human dopamine D4 receptor; Full-length cDNA cloning; Tissue distribution; Retina; Tandem repeat (Matsumoto, M. (29) 157)

Inbred strain
Dopamine receptor; Southern blot hybridization; Restriction fragment length polymorphism (Scott, A.W. (29) 347)

Inclusion
Astrocyte; Cysteamine; Glioma; Heat shock protein; Heme oxygenase (Chopra, V.S. (31) 173)

Induced cerebral ischemia
HGF; c-Met; Neurotrophic factor; Immunohistochemistry; In situ hybridization (Honda, S. (32) 197)

Inducible cAMP early repressor
c-*fos*; Cyclic AMP response element binding protein; Cyclic AMP responsive element modulator; Oxytocin; Vasopressin (Luckman, S.M. (34) 231)

Inducible transcription factor
Parkinson's disease; Basal ganglia (Dragunow, M. (30) 393)

Induction
Adrenergic; Gene expression; Nicotinic cholinergic receptor occupancy; Dimethylphenylpiperazinium; Cycloheximide; Anisomycin (Craviso, G.L. (29) 233)

Infarction
Necrosis; Apoptosis; Microglial activation; Selective neuronal death; DNA ladder; Hypoxia-ischemia (Beilharz, E.J. (29) 1)

Astrocyte; Microglia; IGF-II; IGF-I; Gene expression; Wound repair (Beilharz, E.J. (29) 81)

Injury
MAP kinase; ERK; MEK; PKA; MAPKK; Axotomy (Kiryu, S. (29) 147)

Interleukin-1ß; mRNA; Northern blot; Cortex; Fluid percussion (Fan, L. (30) 125)

Inositol lipid
Second messenger; Calcium channel; Protein kinase C (Nucifora, Jr., F.C. (32) 291)

Inositol phosphate
Gonadotropin releasing hormone receptor; Estradiol; Testosterone; Hippocampus; Rat (Jennes, L. (33) 104)

Inositol 1,4,5-trisphosphate 3-kinase
mRNA expression; Inositol 1,4,5-trisphosphate receptor; In situ hybridization; Focal cerebral ischemia; Reperfusion; Calcium homeostasis (Zhang, S.X. (32) 252)

Inositol 1,4,5-trisphosphate receptor
mRNA expression; Inositol 1,4,5-trisphosphate 3-kinase; In situ hybridization; Focal cerebral ischemia; Reperfusion; Calcium homeostasis (Zhang, S.X. (32) 252)

In situ hybridization
Angiotensin; Receptor; AT1; Rat brain; Pituitary; AV3V (Lenkei, Z. (30) 53)

Rat brain; Cerebral cortex; Hippocampus; Cholinergic transmission; Nicotinic acetylcholine receptor; Digoxigenin (Lobron, C. (30) 70)

Ion channel; Neurotrophin; Spinal sensory neuron (Zur, K.B. (30) 97)

Gonadal steroid; RNase protection; Sexual differentiation (O'Keefe, J.A. (30) 115)

COUP-TF I; ARP-1; Orphan receptor; Nuclear hormone receptor; Transcription factor (Lopes da Silva, S. (30) 131)

trk receptor; Low-affinity neurotrophin receptor; Co-expression; Dorsal root ganglion neuron; Rat (Kashiba, H. (30) 158)

FGF-9; mRNA; Gene expression; Rat brain (Tagashira, S. (30) 233)

3β-Hydroxysteroid dehydrogenase/Δ^5-Δ^4-isomerase; Progesterone; Gene expression; Rat brain; Neurosteroid (Guennoun, R. (30) 287)

mRNA; Ion channel subunit; Peripheral nervous system; Dorsal root ganglion neuron (Oh, Y. (30) 357)

Calbindin D28k; Calcium binding protein; Alzheimer's disease; Hippocampus; Cortex (Maguire-Zeiss, K.A. (30) 362)

Growth associated protein; Double labeling; GFAP (Yao, G.L. (30) 373)

GABAergic interneuron; Cortical maturation; Calcium-binding protein (De Lecea, L. (32) 1)

Cation-independent mannose-6-phosphate receptor; Insulin-like growth factor; Localization; Central nervous system (Nagano, T. (32) 14)

Cysteamine; Duodenal ulcer; VGF; Dorsal motor nucleus of vagus; Nucleus tractus solitarius; Nerve growth factor (Kanemasa, K. (32) 55)

Platelet-derived growth factor B-chain; Rat brain; Neuron; Pituitary gland; Mitogenic activity (Sasahara, M. (32) 63)

N-Methyl-D-aspartate receptor; NMDAR1 subunit; Splice variant; Rat brain (Laurie, D.J. (32) 94)

Tyrosine hydroxylase; Norepinephrine; Locus coeruleus; Subordination; Chronic stress; mRNA; Immunoautoradiography (Watanabe, Y. (32) 176)

Suprachiasmatic nucleus; Photoperiod; Circadian rhythm; Vasopressin; Vasoactive intestinal peptide (Duncan, M.J. (32) 181)

HGF; c-Met; Neurotrophic factor; Induced cerebral ischemia; Immunohistochemistry (Honda, S. (32) 197)

mRNA expression; Inositol 1,4,5-trisphosphate receptor; Inositol 1,4,5-trisphosphate 3-kinase; Focal cerebral ischemia; Reperfusion; Calcium homeostasis (Zhang, S.X. (32) 252)

Buspirone; $5\text{-}HT_{1A}$ receptor; $5\text{-}HT_{2A}$ receptor; Receptor autoradiography; Rat hippocampus; Receptor up-and down-regulation (Chen, H. (32) 348)

Insulin
Opioid; Growth; Development; Ornithine decarboxylase mRNA; Liver; Brain (Bartolome, J.V. (33) 149)

Insulin-like growth factor
Cation-independent mannose-6-phosphate receptor; In situ hybridization; Localization; Central nervous system (Nagano, T. (32) 14)

Insulin-like growth factor I
Cerebellar development; Weaver mutant mouse; Gene expression; External germinal layer (Lee, W.-H. (30) 259)

Interleukin-1
Interleukin-1 receptor antagonist; Brain; Lipopolysaccharide (Gabellec, M.-M. (31) 122)

Alzheimer's disease; β-Amyloid precursor protein; Gene regulation; Promoter; Growth factor; Retinoic acid; PC12 cell; Differentiation (Lahiri, D.K. (32) 233)

Interleukin-1β
Hyperthermia; Cortisol; c-*fos*; Corticotrophin releasing factor; mRNA; Sheep (Vellucci, S.V. (29) 64)

mRNA; Northern blot; Cortex; Injury; Fluid percussion (Fan, L. (30) 125)

Interleukin-1 receptor antagonist
Interleukin-1; Brain; Lipopolysaccharide (Gabellec, M.-M. (31) 122)

Intermediate filament
Phosphorylation; Evolution; Digoxigenin; cDNA (Jacobs, A.J. (29) 43)

Neurofilament; Gene expression; Intron; Immunoblotting (Hsu, C. (32) 241)

Intracerebroventricular administration
Antisense oligonucleotide; G-protein; Feeding; Food intake; Meal pattern; Anorexia; Nervous system; Rat (Plata-Salamán, C.R. (33) 72)

Intron
STEP; Protein tyrosine phosphatase; Striatum; Alternative splicing; Exon; Genomic organization (Sharma, E. (32) 87)

GTP-binding protein; Splicing; Polyadenylation; Striatum; Dopamine; Dopamine D1 receptor (Hervé, D. (32) 125)

Neurofilament; Gene expression; Intermediate filament; Immunoblotting (Hsu, C. (32) 241)

Intron-directed in situ hybridization
Tyrosine hydroxylase; Tyrosine hydroxylase mRNA; Tyrosine hydroxylase hnRNA; Parkinson's disease; 6-Hydroxydopamine; Hybridization, in situ; Substantia nigra (Sherman, T.G. (29) 285)

Ion channel
In situ hybridization; Neurotrophin; Spinal sensory neuron (Zur, K.B. (30) 97)

Glutamate receptor; *N*-Methyl-D-aspartate receptor; Baculovirus; Dichlorokynurenate; *N*-Glycosylation; ζ1 Subunit; *Spodoptera frugiperda* insect cell (Kawamoto, S. (30) 137)

Bone; Immunocytochemistry; Hybridization, in situ (Black, J.A. (34) 89)

Hybridization, in situ; Action potential electrogenesis (Sashihara, S. (34) 239)

Ion channel subunit
In situ hybridization; mRNA; Peripheral nervous system; Dorsal root ganglion neuron (Oh, Y. (30) 357)

Iris
Diabetes mellitus; Diabetic neuropathy; Substance P; Nerve growth factor; Trigeminal ganglion; Rat (Brewster, W.J. (29) 131)

Ischemia
Apoptosis; Programmed cell death; TUNEL staining; Stroke; Neurodegeneration; Neuronal death (Linnik, M.D. (32) 116)

Ischemic brain
Bone morphogenetic protein; Transforming growth factor-β superfamily; Neurotrophic factor; Developing brain; Neuron (Tomizawa, K. (28) 122)

Isoniazid
Acrylamide; Axotomy (Roberson, M.D. (28) 231)

J

Jun
Nicotine; Gene expression; Adrenal gland; c-*fos*; CREB (Hiremagalur, B. (32) 109)

Barrel cortex; CREB; *Fos*; Octamer; Visual cortex (Kaminska, B. (33) 295)

c-Jun
Serotonin 5-HT_2 receptor; Transcription factor; Glucocorticoid receptor; Promoter; c-Fos; AP-1; Luciferase; Transcription (Garlow, S.J. (31) 201)

Haloperidol; Pilocarpine; Fos; Fos B; Jun B; Krox 20; Krox 24; Tardive dyskinesia (MacGibbon, G.A. (34) 294)

Jun B
Haloperidol; Pilocarpine; Fos; Fos B; c-Jun; Krox 20; Krox 24; Tardive dyskinesia (MacGibbon, G.A. (34) 294)

***Jun* gene**
Retina; Light/dark cycle (Imaki, J. (30) 48)

K

Kainate
AP-1; Transcription factor; Neuronal plasticity; DNA binding (Pennypacker, K.R. (34) 161)

Fibroblast growth factor; Seizure; Adrenal steroid; mRNA; Hippocampus (Riva, M.A. (34) 190)

Kainic acid
Hybridization, in situ; Timm's stain; Mossy fiber sprouting; Protein F1; GAP-43; Pentobarbital; MK-801; *N*-Methyl-D-aspartate receptor; Seizure; Axonal growth; Hippocampus (McNamara, R.K. (33) 22)

Kappa receptor
Astrocytes; Mu receptor; Delta receptor; mRNA (Ruzicka, B.B. (34) 209)

Kindling
Epileptogenesis; Seizure; Hippocampus; Glutamate receptor subunit; RNA; Editing (Kamphuis, W. (29) 35)

Krox 20
Haloperidol; Pilocarpine; Fos; Fos B; c-Jun; Jun B; Krox 24; Tardive dyskinesia (MacGibbon, G.A. (34) 294)

Krox 24
Haloperidol; Pilocarpine; Fos; Fos B; c-Jun; Jun B; Krox 20; Tardive dyskinesia (MacGibbon, G.A. (34) 294)

L

Laser confocal scanning microscopy
Excitotoxicity; Hippocampus; Glutamate receptors; Propidium iodide; C-*fos* (Kasof, G.M. (34) 197)

Latent
Herpes virus; Vector; Central nervous system; Hippocampus; β-Galactosidase; Gene therapy (Bloom, D.C. (31) 48)

Lateral septum
Excitatory amino acid; Hypothalamus; Androgen; Glutamate; *N*-Methyl-D-aspartate; NMDAR1; Castration; MK-801; Supraoptic nucleus; mRNA (Kus, L. (28) 55)

L1CAM
Hydrocephalus; Splicing; Alternative mRNA; Exon 2 (Jouet, M. (30) 378)

LCAT
Mouse apoD; Rat apoD; Tissue distribution; Nerve regeneration; apoE; GCDFP-24 (Séguin, D. (30) 242)

Learning
Immediate-early gene; Memory (Williams, J. (28) 87)

Learning and memory
Agrin; Synapse; Synaptic plasticity; Seizure; Epilepsy; Gene expression (O'Connor, L.T. (33) 277)

Light
Circadian rhythm; Immediate-early gene; Entrainment; SKF 38393; Hybridization, in situ (Weaver, D.R. (33) 136)

Light / dark cycle
Jun gene; Retina (Imaki, J. (30) 48)

Lindane
Calmodulin; Calmodulin gene expression; CaM I; CaM II; γ-HCH; δ-HCH (Barrón, S. (30) 279)

Linkage analysis
Familial Alzheimer's disease; β-Amyloid precursor protein; β-Amyloid precursor protein mRNA; Chromosome 14 (Querfurth, H.W. (28) 319)

Lipid synthesis
N-Acetylaspartate; Brain; Acetyl CoA; Liver; Canavan disease (Mehta, V. (31) 151)

Lipopolysaccharide
Interleukin-1; Interleukin-1 receptor antagonist; Brain (Gabellec, M.-M. (31) 122)

5-Lipoxygenase product
Astroglia; Proenkephalin gene; Protein kinase (Mamot, C. (33) 79)

Liver
N-Acetylaspartate; Brain; Acetyl CoA; Lipid synthesis; Canavan disease (Mehta, V. (31) 151)

Opioid; Insulin; Growth; Development; Ornithine decarboxylase mRNA; Brain (Bartolome, J.V. (33) 149)

Localization
Voltage-dependent calcium channel; α1-Subunit; β-Subunit; Hybridization, in situ; Rat; Brain (Tanaka, O. (30) 1)

Cation-independent mannose-6-phosphate receptor; Insulin-like growth factor; In situ hybridization; Central nervous system (Nagano, T. (32) 14)

Locus coeruleus
Hippocampus; Arcuate nucleus; Neuropeptide Y mRNA; Adrenalectomy; Type I receptor; Adrenal steroid receptor Type II; Hybridization, in situ (Watanabe, Y. (28) 135)

N-Methyl-D-aspartate receptor subunit; Differential splicing; mRNA expression; Hybridization histochemistry, in situ (Luque, J.M. (29) 224)

Tyrosine hydroxylase; Norepinephrine; Subordination; Chronic stress; mRNA; In situ hybridization; Immunoautoradiography (Watanabe, Y. (32) 176)

Morphine; Opiate tolerance; Synapsin I mRNA; Amygdala; Spinal cord; Hybridization, in situ (Matus-Leibovitch, N. (34) 221)

Long-term potentiation
Immediate early gene; Dentate gyrus; Hippocampus; Awake rat (Abraham, W.C. (30) 367)

Spectrin; Calpain; Theta-burst stimulation; Synaptic cytoskeleton; Organotypic culture (Vanderklish, P. (32) 25)

Protein F1; GAP-43; Protein kinase C; Hippocampus; CA3; Gene expression (Meberg, P.J. (34) 343)

Low-affinity neurotrophin receptor
trk receptor; Co-expression; Dorsal root ganglion neuron; In situ hybridization; Rat (Kashiba, H. (30) 158)

Low density lipoprotein receptor-related protein
α_2-Macroglobulin; Apolipoprotein E; Alzheimer's disease; Hybridization, in situ; Central nervous system (Ishiguro, M. (33) 37)

Luciferase
Glutathione transferase; Brain; Transcription; Octamer; C6 glioma (Abramovitz, M. (28) 37)

Serotonin 5-HT_2 receptor; Transcription factor; Glucocorticoid receptor; Promoter; c-Fos; c-Jun; AP-1; Transcription (Garlow, S.J. (31) 201)

Lymphocyte activation
cDNA cloning; Tissue-specific expression; Northern analysis; Gene activation (Wick, M.J. (32) 342)

M

M35
Galanin; Receptor; G protein; Galantide; M40; C7; Rin14B cells (Parker, E.M. (34) 179)

M40
Galanin; Receptor; G protein; Galantide; M35; C7; Rin14B cells (Parker, E.M. (34) 179)

α_2-Macroglobulin
Low density lipoprotein receptor-related protein; Apolipoprotein E; Alzheimer's disease; Hybridization, in situ; Central nervous system (Ishiguro, M. (33) 37)

Mammal
Sry; Y chromosome; Sexual dimorphism; Hypothalamus; Midbrain (Lahr, G. (33) 179)

MAP kinase
ERK; MEK; PKA; MAPKK; Axotomy; Injury (Kiryu, S. (29) 147)

Alzheimer's disease; Tau protein; Protein phosphatase 1; Protein phosphatase 2A; Glycogen synthase kinase 3 (Baum, L. (34) 1)

MAPKK
MAP kinase; ERK; MEK; PKA; Axotomy; Injury (Kiryu, S. (29) 147)

Maternal behavior
Medial preoptic nucleus; Ventromedial nucleus; Medial amygdala; Arcuate; Postpartum; Riboprobe (Wagner, C.K. (33) 127)

Maternal behaviour
Corticotrophin releasing factor; Oxytocin; Sheep; Hybridization, in situ; Progesterone; Oestrogen; Parturition (Broad, K.D. (29) 310)

MDK1
Cloning; Eph family; Receptor tyrosine kinase; Developing brain; Splicing variant (Mori, T. (34) 154)

Meal pattern
Antisense oligonucleotide; G-protein; Feeding; Food intake; Anorexia; Nervous system; Intracerebroventricular administration; Rat (Plata-Salamán, C.R. (33) 72)

Medial amygdala
Paraventricular hypothalamic nucleus; Nucleus reuniens; Testosterone; RNase protection; Radioimmunoassay (Strauss, K.I. (28) 81)

Medial preoptic nucleus; Ventromedial nucleus; Arcuate; Postpartum; Maternal behavior; Riboprobe (Wagner, C.K. (33) 127)

Medial preoptic nucleus
Ventromedial nucleus; Medial amygdala; Arcuate; Postpartum; Maternal behavior; Riboprobe (Wagner, C.K. (33) 127)

Calcitonin gene-related peptide; Gonadal steroid; Hybridization, in situ; Sexual dimorphism (Herbison, A.E. (34) 143)

Medial vestibular nucleus
Calretinin; Sensory deprivation; Hybridization histochemistry, in situ (Sans, N. (28) 1)

Medulla oblongata
Glucocorticoid; Development; Pons; Mesencephalon; Ribonuclease-protection assay (Keiger, C.J. (32) 75)

MEK
MAP kinase; ERK; PKA; MAPKK; Axotomy; Injury (Kiryu, S. (29) 147)

Membrane potential
γ-Aminobutyric acid transport; Synaptic plasma membrane (Gonçalves, P.P. (32) 161)

Membrane protein
Brain-specific expression; Seizure; Short consensus repeat; CUB domain; Differential screening (Shimizu-Nishikawa, K. (28) 201)

Memory
Immediate-early gene; Learning (Williams, J. (28) 87)

Meninges
γ-Aminobutyric acid transporter; Hybridization, in situ; mRNA; Glia; Brain (Durkin, M.M. (33) 7)

Mesencephalon
Glucocorticoid; Development; Medulla oblongata; Pons; Ribonuclease-protection assay (Keiger, C.J. (32) 75)

Messenger RNA
AMPA receptor; Gene expression; Glutamate; Human brain; Hybridization, in situ; Schizophrenia (Eastwood, S.L. (29) 211)

Cocaine; Dopamine D2 receptor; γ-Aminobutyric acid; Nucleus accumbens; Preproenkephalin; Preprotachykinin; Sensitization (Sorg, B.A. (29) 381)

c-Met
HGF; Neurotrophic factor; Induced cerebral ischemia; Immunohistochemistry; In situ hybridization (Honda, S. (32) 197)

***N*-Methyl-D-aspartate receptor**
Hybridization, in situ; Timm's stain; Kainic acid; Mossy fiber sprouting; Protein F1; GAP-43; Pentobarbital; MK-801; Seizure; Axonal growth; Hippocampus (McNamara, R.K. (33) 22)

***N*-Methyl-D-aspartate**
Excitatory amino acid; Hypothalamus; Androgen; Glutamate; NMDAR1; Castration; MK-801; Lateral septum; Supraoptic nucleus; mRNA (Kus, L. (28) 55)

Glutamate; MK-801; Striatum; Nucleus accumbens; Neuropeptide mRNA (Angulo, J.A. (29) 15)

Peroxynitrite; Acetylcholine release; Superoxide dismutase; Sodium nitroprusside (Ohkuma, S. (31) 185)

***N*-Methyl-D-aspartate receptor**
Nicotinic acetylcholine receptor; Cerebellar granule cell; Primary culture; Neuronal development; $^{45}Ca^{2+}$ influx (Didier, M. (30) 17)

Glutamate receptor; Baculovirus; Dichlorokynurenate; *N*-Glycosylation; ζ1 Subunit; Ion channel; *Spodoptera frugiperda* insect cell (Kawamoto, S. (30) 137)

Ethanol; Upregulation; Ca^{2+}; Cortical neuron (Hu, X.-J. (30) 347)

NMDAR1 subunit; Splice variant; In situ hybridization; Rat brain (Laurie, D.J. (32) 94)

N-Methyl-D-aspartate receptor channel
ε4 subunit; Glutamate receptor; Gene targeting; Whisker-related neuronal pattern; Spontaneous behavioral activity; Exploratory behavior (Ikeda, K. (33) 61)

N-Methyl-D-aspartate receptor subunit
Differential splicing; mRNA expression; Locus coeruleus; Hybridization histochemistry, in situ (Luque, J.M. (29) 224)

N-Methyl-D-aspartate receptor subunit mRNA level
Chronic ethanol treatment; Upregulation (Follesa, P. (29) 99)

1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine
Neuropeptide; Gene expression; Basal ganglia; Primate; Behavioural recovery; L-DOPA treatment (Jolkkonen, J. (32) 297)

α-Methyl-*p*-tyrosine
Norepinephrine transporter mRNA; Brainstem; RT-PCR (Xiao, Q. (30) 389)

Microglia
Infarction; Astrocyte; IGF-II; IGF-I; Gene expression; Wound repair (Beilharz, E.J. (29) 81)

Heat shock protein; Stress proteins; Stroke; Cerebral ischemia; Glia; Neuronal death; Astrocyte; Neurons; HSP70 (Gaspary, H. (34) 327)

Microglial activation
Necrosis; Apoptosis; Infarction; Selective neuronal death; DNA ladder; Hypoxia-ischemia (Beilharz, E.J. (29) 1)

Microtubule
Neurofilament; mRNA stability; Neuronal cytoskeleton (Moskowitz, P.F. (30) 211)

Microtubule associated protein tau
Immunocross-reactivity; Immunoassay; Alzheimer's disease; Neurofibrillary pathology; Paired helical filament (Del C. Alonso, A. (31) 194)

Midblastula transition
Neurogenesis; Neurofilament; Tau protein; Phosphorylation (Gervasi, C. (33) 192)

Midbrain
Tyrosine hydroxylase; Estrogen receptor; Hybridization, in situ; PCR; Sex differentiation; Dopamine; Nigrostriatal system (Raab, H. (33) 157)

Sry; Y chromosome; Sexual dimorphism; Mammal; Hypothalamus (Lahr, G. (33) 179)

Aromatase; Development; Enzyme activity; mRNA; PCR (Raab, H. (34) 333)

Mineralocorticoid receptor
Serotonin; Corticosterone; Glucocorticoid receptor; Serotonin 5-HT_{1A} receptor; Serotonin 5-HT_{2A} receptor; Serotonin 5-HT_{2C} receptor; Circadian rhythm; Stress (Holmes, M.C. (28) 186)

Mitochondrial DNA
Parkinson's disease; Mitochondrion; Nigrostriatal pathway; Oxidative damage; Point mutation; Complex I; NADH dehydrogenase (Ikebe, S.-i. (28) 281)

Mitochondrion
Parkinson's disease; Mitochondrial DNA; Nigrostriatal pathway; Oxidative damage; Point mutation; Complex I; NADH dehydrogenase (Ikebe, S.-i. (28) 281)

Mitogenic activity
Platelet-derived growth factor B-chain; Rat brain; Neuron; Pituitary gland; In situ hybridization (Sasahara, M. (32) 63)

MK-801
Excitatory amino acid; Hypothalamus; Androgen; Glutamate; *N*-Methyl-D-aspartate; NMDAR1; Castration; Lateral septum; Supraoptic nucleus; mRNA (Kus, L. (28) 55)

c-*fos*; Central nervous system injury; Basic fibroblast growth factor; NMDA (Kohmura, E. (28) 117)

N-Methyl-D-aspartate; Glutamate; Striatum; Nucleus accumbens; Neuropeptide mRNA (Angulo, J.A. (29) 15)

Hybridization, in situ; Timm's stain; Kainic acid; Mossy fiber sprouting; Protein F1; GAP-43; Pentobarbital; *N*-Methyl-D-aspartate receptor; Seizure; Axonal growth; Hippocampus (McNamara, R.K. (33) 22)

Monkey brain
Dopamine D5 receptor; Dopamine D2 receptor; Dopamine D1 receptor; Distribution; Ribonuclease protection assay (Choi, W.S. (31) 86)

Monoamine
Dopamine transmission; Striatum; Enkephalin; Quantitative in situ hybridization (Jaber, M. (32) 156)

Morphine
Opioid receptor; Substance P; Preprotachykinin A; Double in situ hybridization; Dorsal root ganglia; Primary afferent (Minami, M. (30) 203)

Neuroblastoma; Opioid; μ-Opioid receptor; Cyclic AMP; Tolerance (Chakrabarti, S. (30) 269)

Opioid peptide; Gene expression; Tolerance; Neonate; Neuropeptide; Proenkephalin mRNA (Tempel, A. (33) 227)

Opiate tolerance; Synapsin I mRNA; Locus coeruleus; Amygdala; Spinal cord; Hybridization, in situ (Matus-Leibovitch, N. (34) 221)

Mossy fiber sprouting
Hybridization, in situ; Timm's stain; Kainic acid; Protein F1; GAP-43; Pentobarbital; MK-801; *N*-Methyl-D-aspartate receptor; Seizure; Axonal growth; Hippocampus (McNamara, R.K. (33) 22)

Motor performance
Huntington's disease; Parkinson's disease; Aging; Neurotransmitter receptor; Gene therapy (Ikari, H. (34) 315)

Mouse
DNA fragmentation; Apoptosis; Transient middle cerebral artery occlusion (Li, Y. (28) 164)

Radioimmunocytochemistry; Cerebellum; Hippocampus; Ventral tegmental area; Cellular protein quantitation; Neuroblastoma; Calbindin-D_{28k} (Ng, M.C. (32) 82)

Steroidogenesis; Cytochrome P450; Brain; Rat; RT-PCR (Strömstedt, M. (34) 75)

***rd* Mouse**
Clusterin; Photoreceptor degeneration; Retina; Gene expression (Jomary, C. (29) 172)

Mouse apoD
Rat apoD; Tissue distribution; Nerve regeneration; apoE; LCAT; GCDFP-24 (Séguin, D. (30) 242)

Mouse Notch gene
Hybridization, in situ; Development; Ventricular zone; Circumventricular organ (Higuchi, M. (29) 263)

mRNA
Neurotensin receptor; Dopamine; SR 48692; Up-regulation; Antagonist (Yamada, M. (33) 343)

Receptor, α-adrenergic; Pain; Gene expression; Hybridization, in situ; Parasympathetic nervous system; Spinal cord; Sympathetic nervous system (Smith, M.S. (34) 109)

Müller glia
Tyrosine phosphatase; Polymerase chain reaction; Brain; Retina (Shock, L.P. (28) 110)

Retinal pigment epithelium; Rat; Immediate-early gene; NGFI-A; c-*fos*; Cell proliferation; Proliferative vitreoretinopathy (Jaynes, C.D. (32) 329)

Multiple sclerosis
Demyelination; Remyelination; Natural autoantibody; Theiler's virus; Myelin (Asakura, K. (34) 283)

Mu opioid receptor
Receptor regulation; Mu opioid receptor mRNA; Naltrexone; Rat brain; Solution hybridization protection assay; Opioid receptor antagonist (Unterwald, E.M. (33) 351)

Mu opioid receptor mRNA
Receptor regulation; Naltrexone; Mu opioid receptor; Rat brain; Solution hybridization protection assay; Opioid receptor antagonist (Unterwald, E.M. (33) 351)

Mu receptor
Astrocytes; Delta receptor; Kappa receptor; mRNA (Ruzicka, B.B. (34) 209)

Musca
Synapse; Novel protein; Conserved; Drosophila; Calliphora (Reichmuth, C. (32) 45)

Muscarinic
Substance P; Neurokinin-B; Caudate-putamen; Nucleus accumbens (Lucas, L.R. (30) 181)

Muscarinic receptor
Nicotinic receptor expression; Agonist potency; Agonist efficacy; Ganglionic antagonists; α

Bungarotoxin; Desensitization (Wong, E.T. (28) 101)

Mutant mouse
Fyn tyrosine kinase; Gene targeting; Audiogenic seizure; Acoustic priming; Wild running; Clonic–tonic convulsion (Miyakawa, T. (28) 349)

Mutation analysis
Serotonin-1E receptor; Genetic variation; Single strand conformational analysis; Single base substitution (Shimron-Abarbanell, D. (29) 387)

Myelin
Demyelination; Remyelination; Natural autoantibody; Theiler's virus; Multiple sclerosis (Asakura, K. (34) 283)

N

NADH dehydrogenase
Parkinson's disease; Mitochondrion; Mitochondrial DNA; Nigrostriatal pathway; Oxidative damage; Point mutation; Complex I (Ikebe, S.-i. (28) 281)

NADPH-diaphorase
Neuropeptide Y; Single gene mutation; Peptide trafficking; Dentate granule cell; Heat shock protein; Glial fibrillary acidic protein; *Stargazer* (Chafetz, R.S. (31) 111)

Naltrexone
Receptor regulation; Mu opioid receptor mRNA; Mu opioid receptor; Rat brain; Solution hybridization protection assay; Opioid receptor antagonist (Unterwald, E.M. (33) 351)

Natural autoantibody
Demyelination; Remyelination; Theiler's virus; Myelin; Multiple sclerosis (Asakura, K. (34) 283)

Necrosis
Apoptosis; Microglial activation; Infarction; Selective neuronal death; DNA ladder; Hypoxia-ischemia (Beilharz, E.J. (29) 1)

Neocortex
Gene expression; Fluorescence immunohistochemistry; Rhodamine latex microsphere; Ventrolateral thalamus (Senatorov, V.V. (30) 87)

Neonatal lesion
Dopamine; Dopamine D_1 receptor; Dopamine D_2 receptor; Dopamine D_2 mRNA; Hybridization, in situ; Neural graft; Receptor autoradiography (Mennicken, F. (28) 211)

Neonate
Opioid peptide; Gene expression; Morphine; Tolerance; Neuropeptide; Proenkephalin mRNA (Tempel, A. (33) 227)

Nerve growth factor
Diabetes mellitus; Diabetic neuropathy; Substance P; Iris; Trigeminal ganglion; Rat (Brewster, W.J. (29) 131)

Neurotrophin-3; Glucocorticoid; Oestrogen; Hippocampus; Neuron (Scully, J.L. (31) 158)

Cysteamine; Duodenal ulcer; VGF; In situ hybridization; Dorsal motor nucleus of vagus; Nucleus tractus solitarius (Kanemasa, K. (32) 55)

Acidic fibroblast growth factor; Astrocyte; Central nervous system; Cortical infarction; Nucleus basalis magnocellularis; Rat cerebral cortex (Figueiredo, B.C. (33) 1)

Sensory neuron; Oct-2; Null mutant (Ninkina, N.N. (33) 233)

Granin; Adenosine 3′,5′-cyclic monophosphate; Protein kinase C; Depolarization; Forskolin; PC12 cells; Radioimmunoassay; Neurons; Primary cultures (Scammell, J.G. (33) 326)

Nerve regeneration
Mouse apoD; Rat apoD; Tissue distribution; apoE; LCAT; GCDFP-24 (Séguin, D. (30) 242)

IGF mRNA; Somatomedin; Neurotrophic factor; Axon (Pu, S.-F. (34) 18)

Nervous system
Antisense oligonucleotide; G-protein; Feeding; Food intake; Meal pattern; Anorexia; Intracerebroventricular administration; Rat (Plata-Salamán, C.R. (33) 72)

Development; Embryology; Zeta (ζ) opioid receptor; Growth; Gene expression; Peptide; Enkephalin; Caudate putamen; Cerebellum; Brain development (Zagon, I.S. (33) 111)

Neural cell adhesion molecule
Transient ischemia; Entorhinal cortex lesion; Neuronal sprouting; Synaptogenesis; Reactive astrocyte; Hippocampus; Rat; Immunohistochemistry; Hybridization, in situ (Jucker, M. (28) 149)

Neural differentiation
Embryonal carcinoma cell; Retinoic acid; Gene trap; Proteoglycan; cDNA; Post-transcriptional regulation (Imai, Y. (31) 1)

Neural graft
Dopamine; Dopamine D_1 receptor; Dopamine D_2 receptor; Dopamine D_2 mRNA; Hybridization, in situ; Neonatal lesion; Receptor autoradiography (Mennicken, F. (28) 211)

Neural morphogenesis
F3; Cell adhesion; Gene organization; Promoter region (Buttiglione, M. (29) 297)

Neurite varicosity
Neurofibrillary tangle; Tau protein; Polymerase chain reaction; Differential splicing (Pizzi, M. (34) 38)

Neuritogenesis
Neurofilament protein; Embryonal stem cell; NF triplet; NF-66; Peripherin; GAP-43 (Chiu, F.-C. (30) 77)

Neuroanatomical plasticity
Environmental complexity; Immediate-early gene; ZENK; NGFI-A; Zif/268; Cortical column (Wallace, C.S. (32) 211)

Neuroblastoma
Opioid; Morphine; μ-Opioid receptor; Cyclic AMP; Tolerance (Chakrabarti, S. (30) 269)

Radioimmunocytochemistry; Mouse; Cerebellum; Hippocampus; Ventral tegmental area; Cellular protein quantitation; Calbindin-D_{28k} (Ng, M.C. (32) 82)

Neuroblastoma cell
Down regulation; δ-Opioid receptor; Subtractive cDNA cloning (Wick, M.J. (32) 171)

Neurodegeneration
Bcl-2; Bax; Prion protein; Two-hybrid system; Gerstmann–Sträussler syndrome (Kurschner, C. (30) 165)

Apoptosis; Programmed cell death; TUNEL staining; Stroke; Ischemia; Neuronal death (Linnik, M.D. (32) 116)

Neurotoxicity; Cell cycle; Alzheimer's disease; Hippocampus; Deafferentation; Entorhinal cortex; Glutamate (Poirier, J. (34) 57)

Neurofibrillary pathology
Immunocross-reactivity; Immunoassay; Microtubule associated protein tau; Alzheimer's disease; Paired helical filament (Del C. Alonso, A. (31) 194)

Neurofibrillary tangle
Apolipoprotein E; Genotype; Senile plaque; Cerebral amyloid angiopathy; β-Amyloid protein precursor; Tau; Gene expression (Oyama, F. (29) 92)

Tau protein; Polymerase chain reaction; Differential splicing; Neurite varicosity (Pizzi, M. (34) 38)

Neurofilament
cDNA sequence; Single gene copy; Human fetal brain; NF-66; NF-L; NF-M (Chan, S.-O. (29) 177)

Microtubule; mRNA stability; Neuronal cytoskeleton (Moskowitz, P.F. (30) 211)

Gene expression; Intron; Intermediate filament; Immunoblotting (Hsu, C. (32) 241)

Neurogenesis; Tau protein; Midblastula transition; Phosphorylation (Gervasi, C. (33) 192)

Neurofilament protein
Embryonal stem cell; Neuritogenesis; NF triplet; NF-66; Peripherin; GAP-43 (Chiu, F.-C. (30) 77)

Neurogenesis
Neurofilament; Tau protein; Midblastula transition; Phosphorylation (Gervasi, C. (33) 192)

Neurokinin-B
Substance P; Muscarinic; Caudate-putamen; Nucleus accumbens (Lucas, L.R. (30) 181)

Neuroleptic
Striatum; Neuropeptide mRNA (Harrington, K.A. (33) 333)

Neuron
Enolase; Gene; *Cis*-acting element; Expression; Chloramphenicol acetyltransferase; Cultured cell (Sakimura, K. (28) 19)

Bone morphogenetic protein; Transforming growth factor-β superfamily; Neurotrophic factor; Developing brain; Ischemic brain (Tomizawa, K. (28) 122)

Histone H1°; Chromatin; Transcription; Cell nucleus; Supraoptic nucleus (Lafarga, M. (29) 317)

Heme oxygenase; Neuronal injury; Astrocyte; Oxidative injury; Stress protein; Heat shock protein (Dwyer, B.E. (30) 37)

Vectors; Gene therapy; Astrocyte; Protein targeting; Neurovirology (Lowenstein, P.R. (30) 169)

Calmodulin gene III; Gene expression; Central nervous system; Transgenic mouse; Development (Shimoda, K. (31) 61)

Nerve growth factor; Neurotrophin-3; Glucocorticoid; Oestrogen; Hippocampus (Scully, J.L. (31) 158)

Platelet-derived growth factor B-chain; Rat brain; Pituitary gland; In situ hybridization; Mitogenic activity (Sasahara, M. (32) 63)

Neuronal
Calcium channel; Human; Cerebellum (Volsen, S.G. (34) 271)

Neuronal cytoskeleton
Microtubule; Neurofilament; mRNA stability (Moskowitz, P.F. (30) 211)

Neuronal death
Apoptosis; Programmed cell death; TUNEL staining; Stroke; Ischemia; Neurodegeneration (Linnik, M.D. (32) 116)

Heat shock protein; Stress proteins; Stroke; Cerebral ischemia; Glia; Astrocyte; Microglia; Neurons; HSP70 (Gaspary, H. (34) 327)

Neuronal development
Nicotinic acetylcholine receptor; *N*-Methyl-D-aspartate receptor; Cerebellar granule cell; Primary culture; $^{45}Ca^{2+}$ influx (Didier, M. (30) 17)

Neuronal differentiation
Growth arrest; Octamer binding protein; Oct-1; Oct-2 (Lakin, N.D. (28) 47)

Neuronal injury
Heme oxygenase; Neuron; Astrocyte; Oxidative injury; Stress protein; Heat shock protein (Dwyer, B.E. (30) 37)

Neuronal plasticity
Brain development; Helix-loop-helix; Gene expression (Chiaramello, A. (29) 107)

Serotonin; 5-Hydroxytryptamine; Caudate-putamen; 6-Hydroxydopamine; Hybridization, in situ (Numan, S. (29) 391)

AP-1; Transcription factor; Kainate; DNA binding (Pennypacker, K.R. (34) 161)

Neuronal sprouting
Neural cell adhesion molecule; Transient ischemia; Entorhinal cortex lesion; Synaptogenesis; Reactive astrocyte; Hippocampus; Rat; Immunohistochemistry; Hybridization, in situ (Jucker, M. (28) 149)

Neurone
Hormone receptor superfamily; Transcription factor (Matsui, T. (33) 217)

Neurons
Granin; Adenosine 3′,5′-cyclic monophosphate; Protein kinase C; Depolarization; Forskolin; Nerve growth factor; PC12 cells; Radioimmunoassay; Primary cultures (Scammell, J.G. (33) 326)

Heat shock protein; Stress proteins; Stroke; Cerebral ischemia; Glia; Neuronal death; Astrocyte; Microglia; HSP70 (Gaspary, H. (34) 327)

Neuropeptide
Hybridization, in situ; Brain mapping; Gene expression (Weaver, D.R. (28) 296)

Gene expression; Basal ganglia; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Primate; Behavioural recovery; L-DOPA treatment (Jolkkonen, J. (32) 297)

Opioid peptide; Gene expression; Morphine; Tolerance; Neonate; Proenkephalin mRNA (Tempel, A. (33) 227)

Hypothalamus; Trefoil factor; P-domain; P-type; Hypothalamo-hypophysial system (Probst, J.C. (33) 269)

Neuropeptide mRNA
N-Methyl-D-aspartate; Glutamate; MK-801; Striatum; Nucleus accumbens (Angulo, J.A. (29) 15)

Striatum; Neuroleptic (Harrington, K.A. (33) 333)

Neuropeptide Y
Rat brain; Seizure; Electroconvulsive; Somatostatin; mRNA expression; Hybridization histochemistry, in situ (Zachrisson, O. (31) 71)

Single gene mutation; Peptide trafficking; Dentate granule cell; Heat shock protein; NADPH-diaphorase; Glial fibrillary acidic protein; *Stargazer* (Chafetz, R.S. (31) 111)

Chromogranin A; Chromogranin B; Secretogranin II; Dopamine β-hydroxylase; Cytochrome b-561 (Tschernitz, C. (31) 131)

c-*fos*; 2-Deoxy-D-glucose; Somatostatin; Growth hormone; Feeding; Hypothalamus; Hybridization, in situ (Minami, S. (33) 305)

Neuropeptide Y mRNA
Hippocampus; Arcuate nucleus; Locus coeruleus; Adrenalectomy; Type I receptor; Adrenal steroid receptor Type II; Hybridization, in situ (Watanabe, Y. (28) 135)

Neuropeptide Y Y_1 receptor
Transfected cells; Hybridization, in situ; Autoradiography (Tong, Y. (34) 303)

Neurosteroid
3β-Hydroxysteroid dehydrogenase/Δ^5-Δ^4-isomerase; Progesterone; Gene expression; Rat brain; In situ hybridization (Guennoun, R. (30) 287)

Neurotensin receptor
Dopamine; SR 48692; Up-regulation; Antagonist; mRNA (Yamada, M. (33) 343)

Neurotoxicity
Cell cycle; Alzheimer's disease; Hippocampus; Deafferentation; Entorhinal cortex; Glutamate; Neurodegeneration (Poirier, J. (34) 57)

Neurotransmitter receptor
Huntington's disease; Parkinson's disease; Aging; Motor performance; Gene therapy (Ikari, H. (34) 315)

Neurotransmitter release
Rabphilin-3A; Rab3A; Rabphilin-3A-interacting molecule; Small G protein (Miyazaki, M. (28) 29)

Syntaxin; *Drosophila*; Dsynt1; Synaptic transmission; Synaptic proteins (Cerezo, J.R. (29) 245)

Neurotrophic factor
Bone morphogenetic protein; Transforming growth factor-β superfamily; Developing brain; Neuron; Ischemic brain (Tomizawa, K. (28) 122)

Hybridization, in situ; Cerebral cortex; Hippocampus; Cerebellum (Schulz, N.T. (28) 273)

Hippocampus; Transfection (Ueda, S. (29) 365)

HGF; c-Met; Induced cerebral ischemia; Immunohistochemistry; In situ hybridization (Honda, S. (32) 197)

GDNF; RT-PCR; mRNA splicing; Precursor protein; Rat brain (Cristina, N. (32) 354)

IGF mRNA; Somatomedin; Axon; Nerve regeneration (Pu, S.-F. (34) 18)

Neurotrophin
In situ hybridization; Ion channel; Spinal sensory neuron (Zur, K.B. (30) 97)

Neurotrophin-3
Nerve growth factor; Glucocorticoid; Oestrogen; Hippocampus; Neuron (Scully, J.L. (31) 158)

Neurovirology
Vectors; Gene therapy; Neuron; Astrocyte; Protein targeting (Lowenstein, P.R. (30) 169)

NF-66
Neurofilament; cDNA sequence; Single gene copy; Human fetal brain; NF-L; NF-M (Chan, S.-O. (29) 177)

Neurofilament protein; Embryonal stem cell; Neuritogenesis; NF triplet; Peripherin; GAP-43 (Chiu, F.-C. (30) 77)

NF-L
Neurofilament; cDNA sequence; Single gene copy; Human fetal brain; NF-66; NF-M (Chan, S.-O. (29) 177)

NF-M
Neurofilament; cDNA sequence; Single gene copy; Human fetal brain; NF-66; NF-L (Chan, S.-O. (29) 177)

NF triplet
Neurofilament protein; Embryonal stem cell; Neuritogenesis; NF-66; Peripherin; GAP-43 (Chiu, F.-C. (30) 77)

NGFI-A
Hippocampus; Spreading depression; mRNA; NGFI-B; NGFI-C; *egr*-3; Nurr1 (Honkaniemi, J. (28) 157)

Environmental complexity; Immediate-early gene; ZENK; Zif/268; Cortical column; Neuroanatomical plasticity (Wallace, C.S. (32) 211)

Müller glia; Retinal pigment epithelium; Rat; Immediate-early gene; c-*fos*; Cell proliferation; Proliferative vitreoretinopathy (Jaynes, C.D. (32) 329)

NGFI-B
Hippocampus; Spreading depression; mRNA; NGFI-A; NGFI-C; *egr*-3; Nurr1 (Honkaniemi, J. (28) 157)

NGFI-C
Hippocampus; Spreading depression; mRNA; NGFI-A; NGFI-B; *egr*-3; Nurr1 (Honkaniemi, J. (28) 157)

Barrel cortex; Plasticity; Seizure; Zinc finger (Mack, K.J. (29) 140)

Nicotine
Enkephalin; Adrenal; Chromaffin; c-*fos* related antigen; AP-1 (McMillian, M.K. (31) 210)

Gene expression; Adrenal gland; c-*fos*; Jun; CREB (Hiremagalur, B. (32) 109)

Nicotinic receptor; mRNA; Protein kinase A; PC 12 (Madhok, T.C. (32) 143)

Nicotinic acetylcholine receptor
N-Methyl-D-aspartate receptor; Cerebellar granule cell; Primary culture; Neuronal development; $^{45}Ca^{2+}$ influx (Didier, M. (30) 17)

Rat brain; Cerebral cortex; Hippocampus; Cholinergic transmission; In situ hybridization; Digoxigenin (Lobron, C. (30) 70)

Nicotinic cholinergic receptor occupancy
Adrenergic; Induction; Gene expression; Dimethylphenylpiperazinium; Cycloheximide; Anisomycin (Craviso, G.L. (29) 233)

Nicotinic receptor
Nicotine; mRNA; Protein kinase A; PC 12 (Madhok, T.C. (32) 143)

Acetylcholine receptor; Cerebral cortex; Immunocytochemistry; Rat (Nakayama, H. (32) 321)

Nicotinic receptor expression
Agonist potency; Agonist efficacy; Ganglionic antagonists; α Bungarotoxin; Desensitization; Muscarinic receptor (Wong, E.T. (28) 101)

Nigrostriatal pathway
Parkinson's disease; Mitochondrion; Mitochondrial DNA; Oxidative damage; Point mutation; Complex I; NADH dehydrogenase (Ikebe, S.-i. (28) 281)

Nigrostriatal system
Tyrosine hydroxylase; Estrogen receptor; Hybridization, in situ; PCR; Midbrain; Sex differentiation; Dopamine (Raab, H. (33) 157)

Nitric oxide
Peroxynitrite; Acetylcholine release; Hydroxyl radical; Hydroxyl radical scavenger; Cerebral cortical neurons (Ohkuma, S. (34) 347)

Nitric oxide synthase
Amacrine cell; Ganglion cell; Acetylcholine; Tyrosine hydroxylase; Gene induction (Koistinaho, J. (29) 53)

NMDA
c-*fos*; Central nervous system injury; Basic fibroblast growth factor; MK-801 (Kohmura, E. (28) 117)

NMDAR1
Excitatory amino acid; Hypothalamus; Androgen; Glutamate; *N*-Methyl-D-aspartate; Castration; MK-801; Lateral septum; Supraoptic nucleus; mRNA (Kus, L. (28) 55)

NMDAR1 subunit
N-Methyl-D-aspartate receptor; Splice variant; In situ hybridization; Rat brain (Laurie, D.J. (32) 94)

Norepinephrine
Tyrosine hydroxylase; Locus coeruleus; Subordination; Chronic stress; mRNA; In situ hybridization; Immunoautoradiography (Watanabe, Y. (32) 176)

Norepinephrine transporter mRNA
α-Methyl-*p*-tyrosine; Brainstem; RT-PCR (Xiao, Q. (30) 389)

Northern analysis
Biological clock; Circadian rhythm; Glutamate decarboxylase; Rho; mRNA (O'Hara, B.F. (28) 239)

cDNA cloning; Tissue-specific expression; Lymphocyte activation; Gene activation (Wick, M.J. (32) 342)

Northern blot
$GABA_A$ receptor subunit; cDNA; mRNA; Polymerase chain reaction; Southern blot; Splice variant; Calmodulin-dependent protein kinase II (McKinley, D.D. (28) 175)

Interleukin-1ß; mRNA; Cortex; Injury; Fluid percussion (Fan, L. (30) 125)

Novel protein
Synapse; Conserved; Drosophila; Musca; Calliphora (Reichmuth, C. (32) 45)

Nuclear hormone receptor
COUP-TF I; ARP-1; In situ hybridization; Orphan receptor; Transcription factor (Lopes da Silva, S. (30) 131)

Nuclear localization
Huntington disease; Immunofluorescent microscopy; Reporter gene expression (Bessert, D.A. (33) 165)

Nuclear run-on
$GABA_A$ receptor; Glutamate receptor; Plasticity; Cerebellar granule neuron; Transcription (Harris, B.T. (28) 338)

Nucleotide sequence
Hippocampal cholinergic neurostimulating peptide; HCNP; Acetylcholine synthesis; Phosphatidylethanolamine-binding protein; Opioid-binding associated protein (Tohdoh, N. (30) 381)

Nucleus accumbens
N-Methyl-D-aspartate; Glutamate; MK-801; Striatum; Neuropeptide mRNA (Angulo, J.A. (29) 15)

Dopamine; Cocaine; Dynorphin; Binge; *zif*/268; c-*fos*; Hybridization, in situ; Transcription factor; Opioid peptide (Daunais, J.B. (29) 201)

Cocaine; Dopamine D2 receptor; γ-Aminobutyric acid; Messenger RNA; Preproenkephalin; Preprotachykinin; Sensitization (Sorg, B.A. (29) 381)

Substance P; Neurokinin-B; Muscarinic; Caudate-putamen (Lucas, L.R. (30) 181)

Nucleus basalis magnocellularis
Acidic fibroblast growth factor; Astrocyte; Central nervous system; Cortical infarction; Nerve growth factor; Rat cerebral cortex (Figueiredo, B.C. (33) 1)

Nucleus of the tractus solitarius
Ventrolateral medulla; Cardiovascular regulation (Krukoff, T.L. (34) 99)

Nucleus reuniens
Paraventricular hypothalamic nucleus; Medial amygdala; Testosterone; RNase protection; Radioimmunoassay (Strauss, K.I. (28) 81)

Nucleus tractus solitarii
Cysteamine; Duodenal ulcer; VGF; Hybridization, in situ; Dorsal motor nucleus of vagus (Kanemasa, K. (34) 309)

Nucleus tractus solitarius
Cysteamine; Duodenal ulcer; VGF; In situ hybridization; Dorsal motor nucleus of vagus; Nerve growth factor (Kanemasa, K. (32) 55)

Null mutant
Nerve growth factor; Sensory neuron; Oct-2 (Ninkina, N.N. (33) 233)

Nurr1
Hippocampus; Spreading depression; mRNA; NGFI-A; NGFI-B; NGFI-C; *egr*-3 (Honkaniemi, J. (28) 157)

O

Oct-1
Neuronal differentiation; Growth arrest; Octamer binding protein; Oct-2 (Lakin, N.D. (28) 47)

Oct-2
Neuronal differentiation; Growth arrest; Octamer binding protein; Oct-1 (Lakin, N.D. (28) 47)

Nerve growth factor; Sensory neuron; Null mutant (Ninkina, N.N. (33) 233)

Octamer
Glutathione transferase; Brain; Transcription; Luciferase; C6 glioma (Abramovitz, M. (28) 37)

Barrel cortex; CREB; *Fos*; *Jun*; Visual cortex (Kaminska, B. (33) 295)

Octamer binding protein
Neuronal differentiation; Growth arrest; Oct-1; Oct-2 (Lakin, N.D. (28) 47)

Octapeptide insertion
Prion disease; PRNP gene; Spongiform encephalopathy (Krasemann, S. (34) 173)

Oestrogen
Corticotrophin releasing factor; Oxytocin; Sheep; Maternal behaviour; Hybridization, in situ; Progesterone; Parturition (Broad, K.D. (29) 310)

Nerve growth factor; Neurotrophin-3; Glucocorticoid; Hippocampus; Neuron (Scully, J.L. (31) 158)

3α-OH-5α-pregnan-20-one
$GABA_A$ receptor; Hippocampus; Progesterone; Estradiol (Weiland, N.G. (32) 271)

Oligonucleotide probe
Anti-peptide antibody; Calcium homeostasis; Calmodulin; GAP-43; Granule cell; Immunocytochemistry; Hybridization, in situ; mRNA; Purkinje cell (Eakin, T.J. (29) 71)

Opiate tolerance
Morphine; Synapsin I mRNA; Locus coeruleus; Amygdala; Spinal cord; Hybridization, in situ (Matus-Leibovitch, N. (34) 221)

Opioid
Neuroblastoma; Morphine; μ-Opioid receptor; Cyclic AMP; Tolerance (Chakrabarti, S. (30) 269)

Insulin; Growth; Development; Ornithine decarboxylase mRNA; Liver; Brain (Bartolome, J.V. (33) 149)

Opioid-binding associated protein
Hippocampal cholinergic neurostimulating peptide; HCNP; Acetylcholine synthesis; Phosphatidylethanolamine-binding protein; Nucleotide sequence (Tohdoh, N. (30) 381)

Opioid peptide
Dopamine; Cocaine; Dynorphin; Binge; *zif*/268; c-*fos*; Hybridization, in situ; Nucleus accumbens; Transcription factor (Daunais, J.B. (29) 201)

Gene expression; Morphine; Tolerance; Neonate; Neuropeptide; Proenkephalin mRNA (Tempel, A. (33) 227)

Opioid receptor
Morphine; Substance P; Preprotachykinin A; Double in situ hybridization; Dorsal root ganglia; Primary afferent (Minami, M. (30) 203)

G-protein; Phospholipase C; Signal transduction; *Xenopus* oocyte; Protein kinase inhibitor (Ueda, H. (32) 166)

G-protein; Phosphorylation; Calphostin C; Protein kinase C; Desensitization (Hayashi, C. (33) 347)

δ Opioid receptor
Cystic fibrosis transmembrane conductance regulator; CFTR; α_2 Adrenoceptor; β_2 Adrenoceptor; Protein kinase A; Adenylyl cyclase; Cyclic AMP (Birnbaum, A.K. (28) 72)

Down regulation; Neuroblastoma cell; Subtractive cDNA cloning (Wick, M.J. (32) 171)

κ-Opioid receptor
G-protein; Adenylyl cyclase; CHO cell; Transfection; U50-488H; Dynorphin-A(1–17) (Prather, P.L. (29) 336)

μ-Opioid receptor
Neuroblastoma; Opioid; Morphine; Cyclic AMP; Tolerance (Chakrabarti, S. (30) 269)

Opioid receptor antagonist
Receptor regulation; Mu opioid receptor mRNA; Naltrexone; Mu opioid receptor; Rat brain; Solution hybridization protection assay (Unterwald, E.M. (33) 351)

Opioid tolerance
Pro-enkephalin mRNA; Adenylyl cyclase; Forskolin; Cyclic AMP responsive element (Kluttz, B.W. (32) 313)

Organophosphate
Oxime reaction; Acetylcholinesterase; Butyrylcholinesterase; Diisopropylfluorophosphonate; Pyridine-2-aldoxime methiodide (Schwarz, M. (31) 101)

Organotypic culture
Spectrin; Calpain; Long-term potentiation; Theta-burst stimulation; Synaptic cytoskeleton (Vanderklish, P. (32) 25)

Ornithine decarboxylase mRNA
Opioid; Insulin; Growth; Development; Liver; Brain (Bartolome, J.V. (33) 149)

Orphan receptor
COUP-TF I; ARP-1; In situ hybridization; Nuclear hormone receptor; Transcription factor (Lopes da Silva, S. (30) 131)

Oxidative damage
Parkinson's disease; Mitochondrion; Mitochondrial DNA; Nigrostriatal pathway; Point mutation; Complex I; NADH dehydrogenase (Ikebe, S.-i. (28) 281)

Oxidative injury
Heme oxygenase; Neuron; Neuronal injury; Astrocyte; Stress protein; Heat shock protein (Dwyer, B.E. (30) 37)

Oxime reaction
Organophosphate; Acetylcholinesterase; Butyrylcholinesterase; Diisopropylfluorophosphonate; Pyridine-2-aldoxime methiodide (Schwarz, M. (31) 101)

Oxytocin
Corticotrophin releasing factor; Sheep; Maternal behaviour; Hybridization, in situ; Progesterone; Oestrogen; Parturition (Broad, K.D. (29) 310)

$GABA_A$ receptor; Hybridization, in situ; Immunocytochemistry; Vasopressin; Supraoptic nucleus; Hypothalamic paraventricular nucleus (Fenelon, V.S. (34) 45)

c-*fos*; Cyclic AMP response element binding protein; Cyclic AMP responsive element modulator; Inducible cAMP early repressor; Vasopressin (Luckman, S.M. (34) 231)

P

Pain
Receptor, α-adrenergic; Gene expression; Hybridization, in situ; mRNA; Parasympathetic nervous system; Spinal cord; Sympathetic nervous system (Smith, M.S. (34) 109)

Paired helical filament
Immunocross-reactivity; Immunoassay; Microtubule associated protein tau; Alzheimer's disease; Neurofibrillary pathology (Del C. Alonso, A. (31) 194)

Parasympathetic nervous system
Receptor, α-adrenergic; Pain; Gene expression; Hybridization, in situ; mRNA; Spinal cord; Sympathetic nervous system (Smith, M.S. (34) 109)

Paraventricular hypothalamic nucleus
Medial amygdala; Nucleus reuniens; Testosterone; RNase protection; Radioimmunoassay (Strauss, K.I. (28) 81)

Paraventricular nucleus
Corticotropin-releasing factor; Stress; Benzodiazepine (chlordiazepoxide); Heteronucleous RNA; c-*fos* (Imaki, T. (32) 261)

Parkinson's disease
Mitochondrion; Mitochondrial DNA; Nigrostriatal pathway; Oxidative damage; Point mutation; Complex I; NADH dehydrogenase (Ikebe, S.-i. (28) 281)

Tyrosine hydroxylase; Tyrosine hydroxylase mRNA; Tyrosine hydroxylase hnRNA; 6-Hydroxydopamine; Hybridization, in situ; Intron-directed in situ hybridization; Substantia nigra (Sherman, T.G. (29) 285)

Transporter; Promoter; Gene; Cocaine (Donovan, D.M. (30) 327)

Inducible transcription factor; Basal ganglia (Dragunow, M. (30) 393)

Huntington's disease; Aging; Motor performance; Neurotransmitter receptor; Gene therapy (Ikari, H. (34) 315)

Parturition
Corticotrophin releasing factor; Oxytocin; Sheep; Maternal behaviour; Hybridization, in situ; Progesterone; Oestrogen (Broad, K.D. (29) 310)

α-Parvalbumin
RT-PCR; Hybridization, in situ; Immunohistochemistry; Cochlea; Guinea pig (Soto-Prior, A. (34) 337)

PC12
Nicotine; Nicotinic receptor; mRNA; Protein kinase A (Madhok, T.C. (32) 143)

Tyrosine hydroxylase; Calcium; Cyclic AMP; Gene expression; Phosphatidylinositide (Kim, K.S. (33) 254)

PC12 cell
GAP-43; Electrophysiology; Calcium channel (Gribkoff, V.K. (30) 29)

Alzheimer's disease; β-Amyloid precursor protein; Gene regulation; Promoter; Growth factor; Interleukin-1; Retinoic acid; Differentiation (Lahiri, D.K. (32) 233)

Ribozyme; GAP-43; Dopamine release (Imaizumi, K. (32) 338)

Granin; Adenosine 3′,5′-cyclic monophosphate; Protein kinase C; Depolarization; Forskolin; Nerve growth factor; Radioimmunoassay; Neurons; Primary cultures (Scammell, J.G. (33) 326)

PCR
Adrenergic β3 receptor; Human brain; Quantitative PCR; Cloning; Sequence analysis (Rodriguez, M. (29) 369)

Single cell; IEG/DRG neuron (Sheng, H.Z. (30) 196)

Tyrosine hydroxylase; Estrogen receptor; Hybridization, in situ; Midbrain; Sex differentiation; Dopamine; Nigrostriatal system (Raab, H. (33) 157)

Aromatase; Midbrain; Development; Enzyme activity; mRNA (Raab, H. (34) 333)

P-domain
Neuropeptide; Hypothalamus; Trefoil factor; P-type; Hypothalamo-hypophysial system (Probst, J.C. (33) 269)

Pentobarbital
Hybridization, in situ; Timm's stain; Kainic acid; Mossy fiber sprouting; Protein F1; GAP-43; MK-801; *N*-Methyl-D-aspartate receptor; Seizure; Axonal growth; Hippocampus (McNamara, R.K. (33) 22)

Pentylenetetrazol
Cyclosporin A; Convulsion; AP-1; TRE; Electrophoretic mobility-shift assay; Rat brain (Asanuma, M. (33) 29)

Peptide
Nervous system; Development; Embryology; Zeta (ζ) opioid receptor; Growth; Gene expression; Enkephalin; Caudate putamen; Cerebellum; Brain development (Zagon, I.S. (33) 111)

Peptide trafficking
Neuropeptide Y; Single gene mutation; Dentate granule cell; Heat shock protein; NADPH-diaphorase; Glial fibrillary acidic protein; *Stargazer* (Chafetz, R.S. (31) 111)

Peripheral nerve grafting
Axotomy; Retinal ganglion cell; Regeneration; Immediate-early gene; Transcription factor (Robinson, G.A. (30) 61)

Peripheral nervous system
In situ hybridization; mRNA; Ion channel subunit; Dorsal root ganglion neuron (Oh, Y. (30) 357)

Peripherin
Neurofilament protein; Embryonal stem cell; Neuritogenesis; NF triplet; NF-66; GAP-43 (Chiu, F.-C. (30) 77)

Perirhinal cortex
Afterdischarge; Piriform cortex; c-*fos*; *egr*-1 (Chiasson, B.J. (29) 191)

Peroxynitrite
N-Methyl-D-aspartate; Acetylcholine release; Superoxide dismutase; Sodium nitroprusside (Ohkuma, S. (31) 185)

Nitric oxide; Acetylcholine release; Hydroxyl radical; Hydroxyl radical scavenger; Cerebral cortical neurons (Ohkuma, S. (34) 347)

Phosphatidylethanolamine-binding protein
Hippocampal cholinergic neurostimulating peptide; HCNP; Acetylcholine synthesis; Opioid-binding associated protein; Nucleotide sequence (Tohdoh, N. (30) 381)

Phosphatidylinositide
Tyrosine hydroxylase; Calcium; Cyclic AMP; Gene expression; PC12 (Kim, K.S. (33) 254)

Phosphatidylinositol 3-kinase
Hybridization, in situ; Rat; Brain; Development (Ito, Y. (34) 149)

Phospholipase C
cDNA cloning; Polymerase chain reaction; Hybridization, in situ; Automated DNA sequencing (Abogadie, F.C. (31) 10)

Opioid receptor; G-protein; Signal transduction; *Xenopus* oocyte; Protein kinase inhibitor (Ueda, H. (32) 166)

Phosphorylation
Intermediate filament; Evolution; Digoxigenin; cDNA (Jacobs, A.J. (29) 43)

Transcription factor; Hyperosmolar stress; Cyclic AMP response element binding protein; Immediate-early gene; c-*fos* (Shiromani, P.J. (29) 163)

$GABA_A$ receptor; Protein tyrosine kinase; Src oncogene protein pp60v; Tyrosine kinase inhibitor; Tyrphostin; Genistein (Valenzuela, C.F. (31) 165)

Neurogenesis; Neurofilament; Tau protein; Midblastula transition (Gervasi, C. (33) 192)

Opioid receptor; G-protein; Calphostin C; Protein kinase C; Desensitization (Hayashi, C. (33) 347)

Photoperiod
Suprachiasmatic nucleus; Circadian rhythm; In situ hybridization; Vasopressin; Vasoactive intestinal peptide (Duncan, M.J. (32) 181)

Photoreceptor degeneration
Clusterin; Retina; *rd* Mouse; Gene expression (Jomary, C. (29) 172)

Pilocarpine
Haloperidol; Fos; Fos B; c-Jun; Jun B; Krox 20; Krox 24; Tardive dyskinesia (MacGibbon, G.A. (34) 294)

Pinealocyte differentiation
Tryptophan hydroxylase mRNA; Development; Rat pineal gland; Vimentin; Hybridization, in situ (Besançon, R. (29) 253)

Piriform cortex
Afterdischarge; Perirhinal cortex; c-*fos*; *egr*-1 (Chiasson, B.J. (29) 191)

Pituitary
Angiotensin; Receptor; AT1; Rat brain; AV3V; In situ hybridization (Lenkei, Z. (30) 53)

Pituitary gland
Platelet-derived growth factor B-chain; Rat brain; Neuron; In situ hybridization; Mitogenic activity (Sasahara, M. (32) 63)

PKA
MAP kinase; ERK; MEK; MAPKK; Axotomy; Injury (Kiryu, S. (29) 147)

Plasticity
$GABA_A$ receptor; Glutamate receptor; Cerebellar granule neuron; Nuclear run-on; Transcription (Harris, B.T. (28) 338)

NGFI-C; Barrel cortex; Seizure; Zinc finger (Mack, K.J. (29) 140)

Epilepsy; Hybridization, in situ; Gene expression; $GABA_A$ receptor subunit mRNA; Hippocampus (Kamphuis, W. (31) 33)

Platelet-derived growth factor B-chain
Rat brain; Neuron; Pituitary gland; In situ hybridization; Mitogenic activity (Sasahara, M. (32) 63)

Point mutation
Parkinson's disease; Mitochondrion; Mitochondrial DNA; Nigrostriatal pathway; Oxidative damage; Complex I; NADH dehydrogenase (Ikebe, S.-i. (28) 281)

Polyadenylation
GTP-binding protein; Splicing; Striatum; Dopamine; Dopamine D1 receptor; Intron (Hervé, D. (32) 125)

Polymerase chain reaction
Tyrosine phosphatase; Müller glia; Brain; Retina (Shock, L.P. (28) 110)

$GABA_A$ receptor subunit; cDNA; mRNA; Northern blot; Southern blot; Splice variant; Calmodulin-dependent protein kinase II (McKinley, D.D. (28) 175)

Alternative splicing; Calcium; Calcium homeostasis; Calcium ATPase; Human brain; Tissue distribution (Zacharias, D.A. (28) 263)

Phospholipase C; cDNA cloning; Hybridization, in situ; Automated DNA sequencing (Abogadie, F.C. (31) 10)

Neurofibrillary tangle; Tau protein; Differential splicing; Neurite varicosity (Pizzi, M. (34) 38)

Pons
Glucocorticoid; Development; Medulla oblongata; Mesencephalon; Ribonuclease-protection assay (Keiger, C.J. (32) 75)

Porcine brain
Adenosine; Endothelial cell; Gene expression; Vascular permeability factor (Fischer, S. (28) 141)

Post-mortem
Human brain; pH; mRNA preservation; Hybridization, in situ (Kingsbury, A.E. (28) 311)

Postpartum
Medial preoptic nucleus; Ventromedial nucleus; Medial amygdala; Arcuate; Maternal behavior; Riboprobe (Wagner, C.K. (33) 127)

Postsynaptic density
Amyloid precursor-like protein; Amyloid β protein precursor; Synapse; Cerebral cortex (Kim, T.-W. (32) 36)

Post-transcriptional regulation
Embryonal carcinoma cell; Retinoic acid; Neural differentiation; Gene trap; Proteoglycan; cDNA (Imai, Y. (31) 1)

Potassium channel
Hybridization, in situ; Retinal ganglion cell; Corneal epithelium; Renal proximal tubule (Tsukahara, Y. (29) 376)

Precursor protein
GDNF; Neurotrophic factor; RT-PCR; mRNA splicing; Rat brain (Cristina, N. (32) 354)

Prefrontal cortical transection
Enkephalin; 6-Hydroxydopamine; Hybridization, in situ; Rat; Substance P; Transplantation (Campbell, K. (29) 273)

Preproenkephalin
Ventromedial hypothalamic nucleus; mRNA; Hybridization, in situ; Estrogen; Acute estrogen; Reproductive behavior (Priest, C.A. (28) 251)

Cocaine; Dopamine D2 receptor; γ-Aminobutyric acid; Messenger RNA; Nucleus accumbens; Preprotachykinin; Sensitization (Sorg, B.A. (29) 381)

Preproenkephalin mRNA
Estrous cycle; Hybridization, in situ; Ventromedial hypothalamus; Calcineurin; Glyceraldehyde-3-phosphate-dehydrogenase (Funabashi, T. (28) 129)

Preproneurokinin-A gene
Adrenal steroid; Rat brain (Pompei, P. (33) 209)

Preprotachykinin
Cocaine; Dopamine D2 receptor; γ-Aminobutyric acid; Messenger RNA; Nucleus accumbens; Preproenkephalin; Sensitization (Sorg, B.A. (29) 381)

Preprotachykinin A
Opioid receptor; Morphine; Substance P; Double in situ hybridization; Dorsal root ganglia; Primary afferent (Minami, M. (30) 203)

β-Preprotachykinin mRNA
Estrogen; Hybridization, in situ; Ventromedial nucleus of the hypothalamus (Priest, C.A. (28) 61)

Primary afferent
Opioid receptor; Morphine; Substance P; Preprotachykinin A; Double in situ hybridization; Dorsal root ganglia (Minami, M. (30) 203)

Primary culture
Nicotinic acetylcholine receptor; *N*-Methyl-D-aspartate receptor; Cerebellar granule cell; Neuronal development; $^{45}Ca^{2+}$ influx (Didier, M. (30) 17)

Granin; Adenosine 3′,5′-cyclic monophosphate; Protein kinase C; Depolarization; Forskolin; Nerve growth factor; PC12 cells; Radioimmunoassay; Neurons (Scammell, J.G. (33) 326)

Primate
Neuropeptide; Gene expression; Basal ganglia; 1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine; Behavioural recovery; L-DOPA treatment (Jolkkonen, J. (32) 297)

Prion disease
PRNP gene; Spongiform encephalopathy; Octapeptide insertion (Krasemann, S. (34) 173)

Prion protein
Bcl-2; Bax; Neurodegeneration; Two-hybrid system; Gerstmann–Sträussler syndrome (Kurschner, C. (30) 165)

Gerstmann-Sträussler syndrome; Codon 102 mutation; Codon 219 polymorphism (Furukawa, H. (30) 385)

PRNP gene
Prion disease; Spongiform encephalopathy; Octapeptide insertion (Krasemann, S. (34) 173)

Proenkephalin
C-*fos*; Gene expression; Striatum; Transcription regulation (Ziółkowska, B. (34) 351)

Proenkephalin gene
Astroglia; 5-Lipoxygenase product; Protein kinase (Mamot, C. (33) 79)

Pro-enkephalin mRNA
Adenylyl cyclase; Opioid tolerance; Forskolin; Cyclic AMP responsive element (Kluttz, B.W. (32) 313)

Proenkephalin mRNA
Opioid peptide; Gene expression; Morphine; Tolerance; Neonate; Neuropeptide (Tempel, A. (33) 227)

Progesterone
Corticotrophin releasing factor; Oxytocin; Sheep; Maternal behaviour; Hybridization, in situ; Oestrogen; Parturition (Broad, K.D. (29) 310)

3β-Hydroxysteroid dehydrogenase/Δ^5-Δ^4-isomerase; Gene expression; Rat brain; Neurosteroid; In situ hybridization (Guennoun, R. (30) 287)

$GABA_A$ receptor; Hippocampus; Estradiol; 3α-OH-5α-pregnan-20-one (Weiland, N.G. (32) 271)

Programmed cell death
Apoptosis; TUNEL staining; Stroke; Ischemia; Neurodegeneration; Neuronal death (Linnik, M.D. (32) 116)

Proliferative vitreoretinopathy
Müller glia; Retinal pigment epithelium; Rat; Immediate-early gene; NGFI-A; c-*fos*; Cell proliferation (Jaynes, C.D. (32) 329)

Promoter
Transporter; Gene; Parkinson's disease; Cocaine (Donovan, D.M. (30) 327)

Serotonin 5-HT_2 receptor; Transcription factor; Glucocorticoid receptor; c-Fos; c-Jun; AP-1; Luciferase; Transcription (Garlow, S.J. (31) 201)

Alzheimer's disease; β-Amyloid precursor protein; Gene regulation; Growth factor; Interleukin-1; Retinoic acid; PC12 cell; Differentiation (Lahiri, D.K. (32) 233)

Promoter region
F3; Cell adhesion; Neural morphogenesis; Gene organization (Buttiglione, M. (29) 297)

Propidium iodide
Excitotoxicity; Hippocampus; Laser confocal scanning microscopy; Glutamate receptors; C-*fos* (Kasof, G.M. (34) 197)

Protein F1
Hybridization, in situ; Timm's stain; Kainic acid; Mossy fiber sprouting; GAP-43; Pentobarbital; MK-801; *N*-Methyl-D-aspartate receptor; Seizure; Axonal growth; Hippocampus (McNamara, R.K. (33) 22)

GAP-43; Protein kinase C; Long-term potentiation; Hippocampus; CA3; Gene expression (Meberg, P.J. (34) 343)

Protein kinase
mRNA; Hilus lesion; Epilepsy; Activity-dependent regulation (Murray, K.D. (32) 221)

Astroglia; Proenkephalin gene; 5-Lipoxygenase product (Mamot, C. (33) 79)

Protein kinase A
Cystic fibrosis transmembrane conductance regulator; CFTR; α_2 Adrenoceptor; β_2 Adrenoceptor; δ Opioid receptor; Adenylyl cyclase; Cyclic AMP (Birnbaum, A.K. (28) 72)

Nicotine; Nicotinic receptor; mRNA; PC 12 (Madhok, T.C. (32) 143)

Protein kinase C
Second messenger; Inositol lipid; Calcium channel (Nucifora, Jr., F.C. (32) 291)

Granin; Adenosine 3′,5′-cyclic monophosphate; Depolarization; Forskolin; Nerve growth factor; PC12 cells; Radioimmunoassay; Neurons; Primary cultures (Scammell, J.G. (33) 326)

Opioid receptor; G-protein; Phosphorylation; Calphostin C; Desensitization (Hayashi, C. (33) 347)

Protein F1; GAP-43; Long-term potentiation; Hippocampus; CA3; Gene expression (Meberg, P.J. (34) 343)

Protein kinase inhibitor
Opioid receptor; G-protein; Phospholipase C; Signal transduction; *Xenopus* oocyte (Ueda, H. (32) 166)

Protein phosphatase
Purkinje cell; Staggerer mouse; Reeler mouse; mRNA; Hybridization, in situ (Guo, H. (33) 121)

Protein phosphatase 1
Alzheimer's disease; Tau protein; Protein phosphatase 2A; Glycogen synthase kinase 3; MAP kinase (Baum, L. (34) 1)

Protein phosphatase 2A
Alzheimer's disease; Tau protein; Protein phosphatase 1; Glycogen synthase kinase 3; MAP kinase (Baum, L. (34) 1)

Protein targeting
Vectors; Gene therapy; Neuron; Astrocyte; Neurovirology (Lowenstein, P.R. (30) 169)

Protein tyrosine kinase
$GABA_A$ receptor; Phosphorylation; Src oncogene protein pp60v; Tyrosine kinase inhibitor; Tyrphostin; Genistein (Valenzuela, C.F. (31) 165)

Protein tyrosine phosphatase
STEP; Striatum; Alternative splicing; Exon; Intron; Genomic organization (Sharma, E. (32) 87)

Proteoglycan
Embryonal carcinoma cell; Retinoic acid; Neural differentiation; Gene trap; cDNA; Post-transcriptional regulation (Imai, Y. (31) 1)

P-type
Neuropeptide; Hypothalamus; Trefoil factor; P-domain; Hypothalamo-hypophysial system (Probst, J.C. (33) 269)

Purkinje cell
Anti-peptide antibody; Calcium homeostasis; Calmodulin; GAP-43; Granule cell; Immunocytochemistry; Hybridization, in situ; mRNA; Oligonucleotide probe (Eakin, T.J. (29) 71)

Staggerer mouse; Reeler mouse; Protein phosphatase; mRNA; Hybridization, in situ (Guo, H. (33) 121)

Pyridine-2-aldoxime methiodide
Organophosphate; Oxime reaction; Acetylcholinesterase; Butyrylcholinesterase; Diisopropylfluorophosphonate (Schwarz, M. (31) 101)

Q

Quantification
RT-PCR; Dopamine receptors; mRNA (Vrana, S.L. (34) 127)

Quantitative in situ hybridization
Monoamine; Dopamine transmission; Striatum; Enkephalin (Jaber, M. (32) 156)

Quantitative PCR
Adrenergic β3 receptor; Human brain; PCR; Cloning; Sequence analysis (Rodriguez, M. (29) 369)

Vasoactive intestinal polypeptide; Transgene; Cryptic promoter; *lac*Z (Tolentino, P.J. (33) 47)

R

Rab3A
Rabphilin-3A; Rabphilin-3A-interacting molecule; Neurotransmitter release; Small G protein (Miyazaki, M. (28) 29)

Rabphilin-3A
Rab3A; Rabphilin-3A-interacting molecule; Neurotransmitter release; Small G protein (Miyazaki, M. (28) 29)

Rabphilin-3A-interacting molecule
Rabphilin-3A; Rab3A; Neurotransmitter release; Small G protein (Miyazaki, M. (28) 29)

Radioimmunoassay
Paraventricular hypothalamic nucleus; Medial amygdala; Nucleus reuniens; Testosterone; RNase protection (Strauss, K.I. (28) 81)

Granin; Adenosine 3′,5′-cyclic monophosphate; Protein kinase C; Depolarization; Forskolin; Nerve growth factor; PC12 cells; Neurons; Primary cultures (Scammell, J.G. (33) 326)

Radioimmunocytochemistry
Mouse; Cerebellum; Hippocampus; Ventral tegmental area; Cellular protein quantitation; Neuroblastoma; Calbindin-D_{28k} (Ng, M.C. (32) 82)

Raphe nucleus
Aging; Degeneration; Uptake; Carrier; Transport; 5-Hydroxytryptamine; Spinal cord; Hybridization, in situ (Meister, B. (33) 87)

Rat
Neural cell adhesion molecule; Transient ischemia; Entorhinal cortex lesion; Neuronal sprouting; Synaptogenesis; Reactive astrocyte; Hippocampus; Immunohistochemistry; Hybridization, in situ (Jucker, M. (28) 149)

Diabetes mellitus; Diabetic neuropathy; Substance P; Nerve growth factor; Iris; Trigeminal ganglion (Brewster, W.J. (29) 131)

Enkephalin; 6-Hydroxydopamine; Hybridization, in situ; Prefrontal cortical transection; Substance P; Transplantation (Campbell, K. (29) 273)

Suprachiasmatic nucleus; Vasoactive intestinal peptide; Constant darkness; Circadian rhythm; Hybridization, in situ (Okamura, H. (29) 358)

Voltage-dependent calcium channel; α1-Subunit; β-Subunit; Hybridization, in situ; Localization; Brain (Tanaka, O. (30) 1)

trk receptor; Low-affinity neurotrophin receptor; Co-expression; Dorsal root ganglion neuron; In situ hybridization (Kashiba, H. (30) 158)

cDNA cloning; Selenoprotein; TGA codon; His-Pro rich domain; Brain; Bovine (Saijoh, K. (30) 301)

Fibroblast growth factor receptor; mRNA; Brain; Cerebellum; Gene expression; Hybridization, in situ (Miyake, A. (31) 95)

Glucocorticoid; Regeneration; Axotomy; RNA stability (Yao, G.L. (32) 308)

Acetylcholine receptor; Cerebral cortex; Immunocytochemistry; Nicotinic receptor (Nakayama, H. (32) 321)

Müller glia; Retinal pigment epithelium; Immediate-early gene; NGFI-A; c-*fos*; Cell proliferation; Proliferative vitreoretinopathy (Jaynes, C.D. (32) 329)

Antisense oligonucleotide; G-protein; Feeding; Food intake; Meal pattern; Anorexia; Nervous system; Intracerebroventricular administration (Plata-Salamán, C.R. (33) 72)

Gonadotropin releasing hormone receptor; Estradiol; Testosterone; Inositol phosphate; Hippocampus (Jennes, L. (33) 104)

Steroidogenesis; Cytochrome P450; Brain; Mouse; RT-PCR (Strömstedt, M. (34) 75)

Phosphatidylinositol 3-kinase; Hybridization, in situ; Brain; Development (Ito, Y. (34) 149)

Rat apoD
Mouse apoD; Tissue distribution; Nerve regeneration; apoE; LCAT; GCDFP-24 (Séguin, D. (30) 242)

Rat brain
Angiotensin; Receptor; AT1; Pituitary; AV3V; In situ hybridization (Lenkei, Z. (30) 53)

Cerebral cortex; Hippocampus; Cholinergic transmission; Nicotinic acetylcholine receptor; In situ hybridization; Digoxigenin (Lobron, C. (30) 70)

FGF-9; mRNA; Gene expression; In situ hybridization (Tagashira, S. (30) 233)

3β-Hydroxysteroid dehydrogenase/Δ^5-Δ^4-isomerase; Progesterone; Gene expression; Neurosteroid; In situ hybridization (Guennoun, R. (30) 287)

Seizure; Electroconvulsive; Neuropeptide Y; Somatostatin; mRNA expression; Hybridization histochemistry, in situ (Zachrisson, O. (31) 71)

Platelet-derived growth factor B-chain; Neuron; Pituitary gland; In situ hybridization; Mitogenic activity (Sasahara, M. (32) 63)

N-Methyl-D-aspartate receptor; NMDAR1 subunit; Splice variant; In situ hybridization (Laurie, D.J. (32) 94)

Imidazoline receptor; Idazoxan binding site; Solubilization and protein purification; [^{3}H]Idazoxan binding; Immunoblot (Escribá, P.V. (32) 187)

GDNF; Neurotrophic factor; RT-PCR; mRNA splicing; Precursor protein (Cristina, N. (32) 354)

Cyclosporin A; Pentylenetetrazol; Convulsion; AP-1; TRE; Electrophoretic mobility-shift assay (Asanuma, M. (33) 29)

Adrenal steroid; Preproneurokinin-A gene (Pompei, P. (33) 209)

Receptor regulation; Mu opioid receptor mRNA; Naltrexone; Mu opioid receptor; Solution hybridization protection assay; Opioid receptor antagonist (Unterwald, E.M. (33) 351)

Angiotensin; Receptor; AT_1; Vasopressin; Hypothalamus; Hybridization, in situ (Lenkei, Z. (34) 135)

Rat cerebral cortex
Acidic fibroblast growth factor; Astrocyte; Central nervous system; Cortical infarction; Nerve growth factor; Nucleus basalis magnocellularis (Figueiredo, B.C. (33) 1)

Rat forebrain
Angiotensin gene; Adrenal steroid; Salt appetite (Riftina, F. (33) 201)

Rat hippocampus
Buspirone; 5-HT_{1A} receptor; 5-HT_{2A} receptor; In situ hybridization; Receptor autoradiography; Receptor up-and down-regulation (Chen, H. (32) 348)

Rat pineal gland
Tryptophan hydroxylase mRNA; Development; Vimentin; Pinealocyte differentiation; Hybridization, in situ (Besançon, R. (29) 253)

RC3 / Neurogranin
Hypothyroidism; Congenital; Corpus striatum; Hybridization, in situ; Goat (Piosik, P.A. (29) 119)

Reactive astrocyte
Neural cell adhesion molecule; Transient ischemia; Entorhinal cortex lesion; Neuronal sprouting; Synaptogenesis; Hippocampus; Rat; Immunohistochemistry; Hybridization, in situ (Jucker, M. (28) 149)

Receptor
Angiotensin; AT1; Rat brain; Pituitary; AV3V; In situ hybridization (Lenkei, Z. (30) 53)

γ-Aminobutyric acid; Glutamate; $GABA_A$; AMPA; Salivary gland (Shida, T. (33) 261)

Angiotensin; AT_1; Vasopressin; Rat brain; Hypothalamus; Hybridization, in situ (Lenkei, Z. (34) 135)

Galanin; G protein; Galantide; M35; M40; C7; Rin14B cells (Parker, E.M. (34) 179)

Receptor, α-adrenergic
Pain; Gene expression; Hybridization, in situ; mRNA; Parasympathetic nervous system; Spinal cord; Sympathetic nervous system (Smith, M.S. (34) 109)

Receptor autoradiography
Dopamine; Dopamine D_1 receptor; Dopamine D_2 receptor; Dopamine D_2 mRNA; Hybridization, in situ; Neural graft; Neonatal lesion (Mennicken, F. (28) 211)

Buspirone; 5-HT_{1A} receptor; 5-HT_{2A} receptor; In situ hybridization; Rat hippocampus; Receptor up-and down-regulation (Chen, H. (32) 348)

Receptor regulation
Serotonin 5-HT_{1a} receptor; Hippocampus; Corticosteroid hormone; Corticosteroid receptor; Transcription (Zhong, P. (29) 23)

Mu opioid receptor mRNA; Naltrexone; Mu opioid receptor; Rat brain; Solution hybridization protection assay; Opioid receptor antagonist (Unterwald, E.M. (33) 351)

Receptor sensitization
c-*fos*; Gene expression; Striatal compartment; Brain development; Dopamine D1 receptor (Arnauld, E. (30) 223)

Receptor-tyrosine kinase
Cloning; *eph* Family; *sek*; *eck*; *elk*; Developing brain (Mori, T. (29) 325)

Cloning; Eph family; Developing brain; MDK1; Splicing variant (Mori, T. (34) 154)

Receptor up-and down-regulation
Buspirone; 5-HT_{1A} receptor; 5-HT_{2A} receptor; In situ hybridization; Receptor autoradiography; Rat hippocampus (Chen, H. (32) 348)

Reeler mouse
Purkinje cell; Staggerer mouse; Protein phosphatase; mRNA; Hybridization, in situ (Guo, H. (33) 121)

Regeneration
Axotomy; Retinal ganglion cell; Immediate-early gene; Transcription factor; Peripheral nerve grafting (Robinson, G.A. (30) 61)

Glucocorticoid; Axotomy; Rat; RNA stability (Yao, G.L. (32) 308)

Regulatory sequence
Dopamine D_{1A} receptor; Transgenic mouse; β-Galactosidase (Severynse, D.M. (30) 336)

Remyelination
Demyelination; Natural autoantibody; Theiler's virus; Myelin; Multiple sclerosis (Asakura, K. (34) 283)

Renal proximal tubule
Potassium channel; Hybridization, in situ; Retinal ganglion cell; Corneal epithelium (Tsukahara, Y. (29) 376)

Reperfusion
mRNA expression; Inositol 1,4,5-trisphosphate receptor; Inositol 1,4,5-trisphosphate 3-kinase; In situ hybridization; Focal cerebral ischemia; Calcium homeostasis (Zhang, S.X. (32) 252)

Reporter gene expression
Huntington disease; Nuclear localization; Immunofluorescent microscopy (Bessert, D.A. (33) 165)

Repressor element
Gene regulation; Cholinergic expression (Li, Y.-P. (30) 106)

Reproductive behavior
Preproenkephalin; Ventromedial hypothalamic nucleus; mRNA; Hybridization, in situ; Estrogen; Acute estrogen (Priest, C.A. (28) 251)

Restriction fragment length polymorphism
Dopamine receptor; Southern blot hybridization; Inbred strain (Scott, A.W. (29) 347)

Retina
Tyrosine phosphatase; Polymerase chain reaction; Müller glia; Brain (Shock, L.P. (28) 110)

Human dopamine D4 receptor; Full-length cDNA cloning; Tissue distribution; Tandem repeat; Improved polymerase chain reaction (Matsumoto, M. (29) 157)

Clusterin; Photoreceptor degeneration; *rd* Mouse; Gene expression (Jomary, C. (29) 172)

Jun gene; Light/dark cycle (Imaki, J. (30) 48)

GABA transporter; Immunocytochemistry; Distribution; Antiserum; Ciliary body; Retinal pigment epithelium (Honda, S. (33) 319)

Retinal ganglion cell
Potassium channel; Hybridization, in situ; Corneal epithelium; Renal proximal tubule (Tsukahara, Y. (29) 376)

Axotomy; Regeneration; Immediate-early gene; Transcription factor; Peripheral nerve grafting (Robinson, G.A. (30) 61)

Retinal pigment epithelium
Müller glia; Rat; Immediate-early gene; NGFI-A; c-*fos*; Cell proliferation; Proliferative vitreoretinopathy (Jaynes, C.D. (32) 329)

GABA transporter; Immunocytochemistry; Distribution; Antiserum; Retina; Ciliary body (Honda, S. (33) 319)

Retinoic acid
Embryonal carcinoma cell; Neural differentiation; Gene trap; Proteoglycan; cDNA; Post-transcriptional regulation (Imai, Y. (31) 1)

Alzheimer's disease; β-Amyloid precursor protein; Gene regulation; Promoter; Growth factor; Interleukin-1; PC12 cell; Differentiation (Lahiri, D.K. (32) 233)

Rho
Biological clock; Circadian rhythm; Glutamate decarboxylase; mRNA; Northern analysis (O'Hara, B.F. (28) 239)

Rhodamine latex microsphere
Gene expression; Fluorescence immunohistochemistry; Neocortex; Ventrolateral thalamus (Senatorov, V.V. (30) 87)

Ribonuclease protection assay
Dopamine D5 receptor; Dopamine D2 receptor; Dopamine D1 receptor; Distribution; Monkey brain (Choi, W.S. (31) 86)

Glucocorticoid; Development; Medulla oblongata; Pons; Mesencephalon (Keiger, C.J. (32) 75)

Dopamine receptor; D1 dopamine receptor; D2 dopamine receptor; D3 dopamine receptor; mRNA (Richtand, N.M. (33) 97)

Riboprobe
Medial preoptic nucleus; Ventromedial nucleus; Medial amygdala; Arcuate; Postpartum; Maternal behavior (Wagner, C.K. (33) 127)

Riboprobes
G-protein coupled receptors; Hybridization, in situ; RT-PCR; Digoxigenin (Schindler, M. (34) 321)

Ribozyme
GAP-43; PC12 cell; Dopamine release (Imaizumi, K. (32) 338)

Rin14B cells
Galanin; Receptor; G protein; Galantide; M35; M40; C7 (Parker, E.M. (34) 179)

RNA
Kindling; Epileptogenesis; Seizure; Hippocampus; Glutamate receptor subunit; Editing (Kamphuis, W. (29) 35)

c-*fos* mRNA
hsp70 mRNA; Traumatic brain injury; Free radical; Superoxide dismutase; Transgenic mouse; Spreading depression (Mikawa, S. (33) 288)

hsp70 mRNA
c-*fos* mRNA; Traumatic brain injury; Free radical; Superoxide dismutase; Transgenic mouse; Spreading depression (Mikawa, S. (33) 288)

mRNA
Excitatory amino acid; Hypothalamus; Androgen; Glutamate; *N*-Methyl-D-aspartate; NMDAR1; Castration; MK-801; Lateral septum; Supraoptic nucleus (Kus, L. (28) 55)

Hippocampus; Spreading depression; NGFI-A; NGFI-B; NGFI-C; *egr*-3; Nurr1 (Honkaniemi, J. (28) 157)

$GABA_A$ receptor subunit; cDNA; Polymerase chain reaction; Northern blot; Southern blot; Splice variant; Calmodulin-dependent protein kinase II (McKinley, D.D. (28) 175)

Biological clock; Circadian rhythm; Glutamate decarboxylase; Rho; Northern analysis (O'Hara, B.F. (28) 239)

Preproenkephalin; Ventromedial hypothalamic nucleus; Hybridization, in situ; Estrogen; Acute estrogen; Reproductive behavior (Priest, C.A. (28) 251)

Hyperthermia; Cortisol; Interleukin-1β; c-*fos*; Corticotrophin releasing factor; Sheep (Vellucci, S.V. (29) 64)

Anti-peptide antibody; Calcium homeostasis; Calmodulin; GAP-43; Granule cell; Immunocytochemistry; Hybridization, in situ; Oligonucleotide probe; Purkinje cell (Eakin, T.J. (29) 71)

Interleukin-1ß; Northern blot; Cortex; Injury; Fluid percussion (Fan, L. (30) 125)

α-Tubulin; ß-Actin; Brain ischemia (Kumar, K. (30) 149)

FGF-9; Gene expression; Rat brain; In situ hybridization (Tagashira, S. (30) 233)

Glial fibrillary acidic protein; Astrocyte; Brain; Bone marrow (Zelenika, D. (30) 251)

In situ hybridization; Ion channel subunit; Peripheral nervous system; Dorsal root ganglion neuron (Oh, Y. (30) 357)

Fibroblast growth factor receptor; Rat; Brain; Cerebellum; Gene expression; Hybridization, in situ (Miyake, A. (31) 95)

Nicotine; Nicotinic receptor; Protein kinase A; PC 12 (Madhok, T.C. (32) 143)

Tyrosine hydroxylase; Norepinephrine; Locus coeruleus; Subordination; Chronic stress; In situ hybridization; Immunoautoradiography (Watanabe, Y. (32) 176)

Protein kinase; Hilus lesion; Epilepsy; Activity-dependent regulation (Murray, K.D. (32) 221)

γ-Aminobutyric acid transporter; Hybridization, in situ; Glia; Meninges; Brain (Durkin, M.M. (33) 7)

Dopamine receptor; D1 dopamine receptor; D2 dopamine receptor; D3 dopamine receptor; Ribonuclease protection assay (Richtand, N.M. (33) 97)

Purkinje cell; Staggerer mouse; Reeler mouse; Protein phosphatase; Hybridization, in situ (Guo, H. (33) 121)

GAD65; GAD67; D1; D2; Striatum (Laprade, N. (34) 65)

RT-PCR; Dopamine receptors; Quantification (Vrana, S.L. (34) 127)

Fibroblast growth factor; Seizure; Kainate; Adrenal steroid; Hippocampus (Riva, M.A. (34) 190)

Astrocytes; Mu receptor; Delta receptor; Kappa receptor (Ruzicka, B.B. (34) 209)

Aromatase; Midbrain; Development; Enzyme activity; PCR (Raab, H. (34) 333)

mRNA expression
N-Methyl-D-aspartate receptor subunit; Differential splicing; Locus coeruleus; Hybridization histochemistry, in situ (Luque, J.M. (29) 224)

Rat brain; Seizure; Electroconvulsive; Neuropeptide Y; Somatostatin; Hybridization histochemistry, in situ (Zachrisson, O. (31) 71)

Inositol 1,4,5-trisphosphate receptor; Inositol 1,4,5-trisphosphate 3-kinase; In situ hybridization; Focal cerebral ischemia; Reperfusion; Calcium homeostasis (Zhang, S.X. (32) 252)

Diazepam binding inhibitor; Ethanol; Cerebral cortical neurons (Katsura, M. (34) 355)

mRNA preservation
Human brain; Post-mortem; pH; Hybridization, in situ (Kingsbury, A.E. (28) 311)

RNase protection
Paraventricular hypothalamic nucleus; Medial amygdala; Nucleus reuniens; Testosterone; Radioimmunoassay (Strauss, K.I. (28) 81)

Gonadal steroid; In situ hybridization; Sexual differentiation (O'Keefe, J.A. (30) 115)

mRNA splicing
GDNF; Neurotrophic factor; RT-PCR; Precursor protein; Rat brain (Cristina, N. (32) 354)

RNA stability
Glucocorticoid; Regeneration; Axotomy; Rat (Yao, G.L. (32) 308)

mRNA stability
Microtubule; Neurofilament; Neuronal cytoskeleton (Moskowitz, P.F. (30) 211)

RT-PCR
Somatostatin receptor 3; Spinal cord; Dorsal root ganglia; Hybridization, in situ (Señaris, R.M. (29) 185)

Norepinephrine transporter mRNA; α-Methyl-*p*-tyrosine; Brainstem (Xiao, Q. (30) 389)

GDNF; Neurotrophic factor; mRNA splicing; Precursor protein; Rat brain (Cristina, N. (32) 354)

Steroidogenesis; Cytochrome P450; Brain; Rat; Mouse (Strömstedt, M. (34) 75)

Dopamine receptors; mRNA; Quantification (Vrana, S.L. (34) 127)

G-protein coupled receptors; Hybridization, in situ; Digoxigenin; Riboprobes (Schindler, M. (34) 321)

α-Parvalbumin; Hybridization, in situ; Immunohistochemistry; Cochlea; Guinea pig (Soto-Prior, A. (34) 337)

S

S-100
S100β; β-Amyloid; Alzheimer's disease; Trophic factor; Gliosis; Astrocytes; Gene regulation; Transcription; Calcium-binding protein (Peña, L.A. (34) 118)

Salivary gland
γ-Aminobutyric acid; Glutamate; $GABA_A$; AMPA; Receptor (Shida, T. (33) 261)

Salt appetite
Angiotensin gene; Rat forebrain; Adrenal steroid (Riftina, F. (33) 201)

S100β
S-100; β-Amyloid; Alzheimer's disease; Trophic factor; Gliosis; Astrocytes; Gene regulation; Transcription; Calcium-binding protein (Peña, L.A. (34) 118)

Schizophrenia
AMPA receptor; Gene expression; Glutamate; Human brain; Hybridization, in situ; Messenger RNA (Eastwood, S.L. (29) 211)

Second messenger
Inositol lipid; Calcium channel; Protein kinase C (Nucifora, Jr., F.C. (32) 291)

Secretogranin II
Chromogranin A; Chromogranin B; Neuropeptide Y; Dopamine β-hydroxylase; Cytochrome b-561 (Tschernitz, C. (31) 131)

Seizure
Brain-specific expression; Short consensus repeat; CUB domain; Differential screening; Membrane protein (Shimizu-Nishikawa, K. (28) 201)

Kindling; Epileptogenesis; Hippocampus; Glutamate receptor subunit; RNA; Editing (Kamphuis, W. (29) 35)

NGFI-C; Barrel cortex; Plasticity; Zinc finger (Mack, K.J. (29) 140)

Rat brain; Electroconvulsive; Neuropeptide Y; Somatostatin; mRNA expression; Hybridization histochemistry, in situ (Zachrisson, O. (31) 71)

Hybridization, in situ; Timm's stain; Kainic acid; Mossy fiber sprouting; Protein F1; GAP-43; Pentobarbital; MK-801; *N*-Methyl-D-aspartate receptor; Axonal growth; Hippocampus (McNamara, R.K. (33) 22)

Agrin; Synapse; Synaptic plasticity; Learning and memory; Epilepsy; Gene expression (O'Connor, L.T. (33) 277)

Fibroblast growth factor; Kainate; Adrenal steroid; mRNA; Hippocampus (Riva, M.A. (34) 190)

sek
Cloning; *eph* Family; *eck*; *elk*; Receptor-tyrosine kinase; Developing brain (Mori, T. (29) 325)

Selective neuronal death
Necrosis; Apoptosis; Microglial activation; Infarction; DNA ladder; Hypoxia-ischemia (Beilharz, E.J. (29) 1)

Selenoprotein
cDNA cloning; TGA codon; His-Pro rich domain; Brain; Bovine; Rat (Saijoh, K. (30) 301)

Senile plaque
Apolipoprotein E; Genotype; Neurofibrillary tangle; Cerebral amyloid angiopathy; β-Amyloid protein precursor; Tau; Gene expression (Oyama, F. (29) 92)

Sensitization
Cocaine; Dopamine D2 receptor; γ-Aminobutyric acid; Messenger RNA; Nucleus accumbens; Preproenkephalin; Preprotachykinin (Sorg, B.A. (29) 381)

Sensory deprivation
Calretinin; Medial vestibular nucleus; Hybridization histochemistry, in situ (Sans, N. (28) 1)

Sensory neuron
Nerve growth factor; Oct-2; Null mutant (Ninkina, N.N. (33) 233)

Sequence analysis
Adrenergic β3 receptor; Human brain; PCR; Quantitative PCR; Cloning (Rodriguez, M. (29) 369)

Serotonin
Corticosterone; Glucocorticoid receptor; Mineralocorticoid receptor; Serotonin 5-HT_{1A} receptor; Serotonin 5-HT_{2A} receptor; Serotonin 5-HT_{2C} receptor; Circadian rhythm; Stress (Holmes, M.C. (28) 186)

5-Hydroxytryptamine; Caudate-putamen; 6-Hydroxydopamine; Hybridization, in situ; Neuronal plasticity (Numan, S. (29) 391)

5-HT_{2C} receptors; Glycosylation; Sialic acid; Choroid plexus; Antibodies (Backstrom, J.R. (33) 311)

Serotonin-1E receptor
Genetic variation; Single strand conformational analysis; Mutation analysis; Single base substitution (Shimron-Abarbanell, D. (29) 387)

Serotonin 5-HT_{1A} receptor
Serotonin; Corticosterone; Glucocorticoid receptor; Mineralocorticoid receptor; Serotonin 5-HT_{2A} receptor; Serotonin 5-HT_{2C} receptor; Circadian rhythm; Stress (Holmes, M.C. (28) 186)

Serotonin 5-HT_{1a} receptor
Hippocampus; Corticosteroid hormone; Corticosteroid receptor; Receptor regulation; Transcription (Zhong, P. (29) 23)

Serotonin 5-HT_2 receptor
Transcription factor; Glucocorticoid receptor; Promoter; c-Fos; c-Jun; AP-1; Luciferase; Transcription (Garlow, S.J. (31) 201)

Serotonin 5-HT_{2A} receptor
Serotonin; Corticosterone; Glucocorticoid receptor; Mineralocorticoid receptor; Serotonin 5-HT_{1A} receptor; Serotonin 5-HT_{2C} receptor; Circadian rhythm; Stress (Holmes, M.C. (28) 186)

Serotonin 5-HT_{2C} receptor
Serotonin; Corticosterone; Glucocorticoid receptor; Mineralocorticoid receptor; Serotonin 5-HT_{1A} receptor; Serotonin 5-HT_{2A} receptor; Circadian rhythm; Stress (Holmes, M.C. (28) 186)

Sex differentiation
Tyrosine hydroxylase; Estrogen receptor; Hybridization, in situ; PCR; Midbrain; Dopamine; Nigrostriatal system (Raab, H. (33) 157)

Sexual differentiation
Gonadal steroid; RNase protection; In situ hybridization (O'Keefe, J.A. (30) 115)

Sexual dimorphism
Sry; Y chromosome; Mammal; Hypothalamus; Midbrain (Lahr, G. (33) 179)

Calcitonin gene-related peptide; Gonadal steroid; Hybridization, in situ; Medial preoptic nucleus (Herbison, A.E. (34) 143)

Sheep
Hyperthermia; Cortisol; Interleukin-1β; *c-fos*; Corticotrophin releasing factor; mRNA (Vellucci, S.V. (29) 64)

Corticotrophin releasing factor; Oxytocin; Maternal behaviour; Hybridization, in situ; Progesterone; Oestrogen; Parturition (Broad, K.D. (29) 310)

Short consensus repeat
Brain-specific expression; Seizure; CUB domain; Differential screening; Membrane protein (Shimizu-Nishikawa, K. (28) 201)

Sialic acid
5-HT_{2C} receptors; Glycosylation; Choroid plexus; Serotonin; Antibodies (Backstrom, J.R. (33) 311)

Signal transduction
Opioid receptor; G-protein; Phospholipase C; *Xenopus* oocyte; Protein kinase inhibitor (Ueda, H. (32) 166)

Silencer
Dopamine β-hydroxylase; DBH negative regulatory element; Transcriptional regulation; Transient transfection (Ishiguro, H. (34) 251)

Single base substitution
Serotonin-1E receptor; Genetic variation; Single strand conformational analysis; Mutation analysis (Shimron-Abarbanell, D. (29) 387)

Single cell
PCR; IEG/DRG neuron (Sheng, H.Z. (30) 196)

Single gene copy
Neurofilament; cDNA sequence; Human fetal brain; NF-66; NF-L; NF-M (Chan, S.-O. (29) 177)

Single gene mutation
Neuropeptide Y; Peptide trafficking; Dentate granule cell; Heat shock protein; NADPH-diaphorase; Glial fibrillary acidic protein; *Stargazer* (Chafetz, R.S. (31) 111)

Single strand conformational analysis
Serotonin-1E receptor; Genetic variation; Mutation analysis; Single base substitution (Shimron-Abarbanell, D. (29) 387)

SKF 38393
Circadian rhythm; Immediate-early gene; Entrainment; Light; Hybridization, in situ (Weaver, D.R. (33) 136)

Small G protein
Rabphilin-3A; Rab3A; Rabphilin-3A-interacting molecule; Neurotransmitter release (Miyazaki, M. (28) 29)

Sodium nitroprusside
Peroxynitrite; *N*-Methyl-D-aspartate; Acetylcholine release; Superoxide dismutase (Ohkuma, S. (31) 185)

Solubilization and protein purification
Imidazoline receptor; Idazoxan binding site; [^{3}H]Idazoxan binding; Immunoblot; Rat brain (Escribá, P.V. (32) 187)

Solution hybridization protection assay
Receptor regulation; Mu opioid receptor mRNA; Naltrexone; Mu opioid receptor; Rat brain; Opioid receptor antagonist (Unterwald, E.M. (33) 351)

Somatomedin
IGF mRNA; Neurotrophic factor; Axon; Nerve regeneration (Pu, S.-F. (34) 18)

Somatostatin
Rat brain; Seizure; Electroconvulsive; Neuropeptide Y; mRNA expression; Hybridization histochemistry, in situ (Zachrisson, O. (31) 71)

c-*fos*; 2-Deoxy-D-glucose; Neuropeptide Y; Growth hormone; Feeding; Hypothalamus; Hybridization, in situ (Minami, S. (33) 305)

Somatostatin receptor 3
Spinal cord; Dorsal root ganglia; RT-PCR; Hybridization, in situ (Señaris, R.M. (29) 185)

Southern blot
$GABA_A$ receptor subunit; cDNA; mRNA; Polymerase chain reaction; Northern blot; Splice variant; Calmodulin-dependent protein kinase II (McKinley, D.D. (28) 175)

Southern blot hybridization
Dopamine receptor; Restriction fragment length polymorphism; Inbred strain (Scott, A.W. (29) 347)

Spectrin
Calpain; Long-term potentiation; Theta-burst stimulation; Synaptic cytoskeleton; Organotypic culture (Vanderklish, P. (32) 25)

Spinal cord
Somatostatin receptor 3; Dorsal root ganglia; RT-PCR; Hybridization, in situ (Señaris, R.M. (29) 185)

Aging; Degeneration; Uptake; Carrier; Transport; 5-Hydroxytryptamine; Raphe nucleus; Hybridization, in situ (Meister, B. (33) 87)

Receptor, α-adrenergic; Pain; Gene expression; Hybridization, in situ; mRNA; Parasympathetic nervous system; Sympathetic nervous system (Smith, M.S. (34) 109)

Morphine; Opiate tolerance; Synapsin I mRNA; Locus coeruleus; Amygdala; Hybridization, in situ (Matus-Leibovitch, N. (34) 221)

Spinal sensory neuron
In situ hybridization; Ion channel; Neurotrophin (Zur, K.B. (30) 97)

Splice variant
$GABA_A$ receptor subunit; cDNA; mRNA; Polymerase chain reaction; Northern blot; Southern blot; Calmodulin-dependent protein kinase II (McKinley, D.D. (28) 175)

N-Methyl-D-aspartate receptor; NMDAR1 subunit; In situ hybridization; Rat brain (Laurie, D.J. (32) 94)

Splicing
L1CAM; Hydrocephalus; Alternative mRNA; Exon 2 (Jouet, M. (30) 378)

GTP-binding protein; Polyadenylation; Striatum; Dopamine; Dopamine D1 receptor; Intron (Hervé, D. (32) 125)

Splicing variant
Cloning; Eph family; Receptor tyrosine kinase; Developing brain; MDK1 (Mori, T. (34) 154)

***Spodoptera frugiperda* insect cell**
Glutamate receptor; *N*-Methyl-D-aspartate receptor; Baculovirus; Dichlorokynurenate; *N*-Glycosylation; ζ1 Subunit; Ion channel (Kawamoto, S. (30) 137)

Spongiform encephalopathy
Prion disease; PRNP gene; Octapeptide insertion (Krasemann, S. (34) 173)

Spontaneous behavioral activity
ϵ4 subunit; *N*-Methyl-D-aspartate receptor channel; Glutamate receptor; Gene targeting; Whisker-related neuronal pattern; Exploratory behavior (Ikeda, K. (33) 61)

Spreading depression
Hippocampus; mRNA; NGFI-A; NGFI-B; NGFI-C; *egr*-3; Nurr1 (Honkaniemi, J. (28) 157)

c-*fos* mRNA; hsp70 mRNA; Traumatic brain injury; Free radical; Superoxide dismutase; Transgenic mouse (Mikawa, S. (33) 288)

SR 48692
Neurotensin receptor; Dopamine; Up-regulation; Antagonist; mRNA (Yamada, M. (33) 343)

Src oncogene protein pp60v
$GABA_A$ receptor; Phosphorylation; Protein tyrosine kinase; Tyrosine kinase inhibitor; Tyrphostin; Genistein (Valenzuela, C.F. (31) 165)

Sry
Y chromosome; Sexual dimorphism; Mammal; Hypothalamus; Midbrain (Lahr, G. (33) 179)

Staggerer mouse
Purkinje cell; Reeler mouse; Protein phosphatase; mRNA; Hybridization, in situ (Guo, H. (33) 121)

Stargazer
Neuropeptide Y; Single gene mutation; Peptide trafficking; Dentate granule cell; Heat shock protein; NADPH-diaphorase; Glial fibrillary acidic protein (Chafetz, R.S. (31) 111)

STEP
Protein tyrosine phosphatase; Striatum; Alternative splicing; Exon; Intron; Genomic organization (Sharma, E. (32) 87)

Steroidogenesis
Cytochrome P450; Brain; Rat; Mouse; RT-PCR (Strömstedt, M. (34) 75)

Stress
Serotonin; Corticosterone; Glucocorticoid receptor; Mineralocorticoid receptor; Serotonin $5\text{-}HT_{1A}$ receptor; Serotonin $5\text{-}HT_{2A}$ receptor; Serotonin $5\text{-}HT_{2C}$ receptor; Circadian rhythm (Holmes, M.C. (28) 186)

Corticotropin-releasing factor; Paraventricular nucleus; Benzodiazepine (chlordiazepoxide); Heteronucleous RNA; c-*fos* (Imaki, T. (32) 261)

Corticosteroid; Testosterone; $GABA_A$ receptor subunit; Hippocampus; Hybridization, in situ (Orchinik, M. (34) 29)

Stress (heat shock) protein
Stress (heat shock) response; Heat shock factor; Transcription; Cerebral ischemia; Brain (Higashi, T. (34) 262)

Stress (heat shock) response
Stress (heat shock) protein; Heat shock factor; Transcription; Cerebral ischemia; Brain (Higashi, T. (34) 262)

Stress protein
Heme oxygenase; Neuron; Neuronal injury; Astrocyte; Oxidative injury; Heat shock protein (Dwyer, B.E. (30) 37)

Stress proteins
Heat shock protein; Stroke; Cerebral ischemia; Glia; Neuronal death; Astrocyte; Microglia; Neurons; HSP70 (Gaspary, H. (34) 327)

Stress response
Alzheimer's disease; β-Amyloid precursor protein; Transcriptional regulation; Heat shock element (Dewji, N.N. (33) 245)

Striatal compartment
c-*fos*; Gene expression; Brain development; Dopamine D1 receptor; Receptor sensitization (Arnauld, E. (30) 223)

Striatum
Basal ganglia; Choline acetyltransferase; Hybridization, in situ; Immunocytochemistry (Jongen-Rêlo, A.L. (28) 169)

N-Methyl-D-aspartate; Glutamate; MK-801; Nucleus accumbens; Neuropeptide mRNA (Angulo, J.A. (29) 15)

STEP; Protein tyrosine phosphatase; Alternative splicing; Exon; Intron; Genomic organization (Sharma, E. (32) 87)

GTP-binding protein; Splicing; Polyadenylation; Dopamine; Dopamine D1 receptor; Intron (Hervé, D. (32) 125)

Monoamine; Dopamine transmission; Enkephalin; Quantitative in situ hybridization (Jaber, M. (32) 156)

Neuroleptic; Neuropeptide mRNA (Harrington, K.A. (33) 333)

GAD65; GAD67; D1; D2; mRNA (Laprade, N. (34) 65)

C-*fos*; Gene expression; Proenkephalin; Transcription regulation (Ziółkowska, B. (34) 351)

Stroke
Apoptosis; Programmed cell death; TUNEL staining; Ischemia; Neurodegeneration; Neuronal death (Linnik, M.D. (32) 116)

Heat shock protein; Stress proteins; Cerebral ischemia; Glia; Neuronal death; Astrocyte; Microglia; Neurons; HSP70 (Gaspary, H. (34) 327)

Subcellular distribution
cDNA cloning; Synaptic vesicle protein; Fatty acylation; Cysteine string protein (Mastrogiacomo, A. (28) 12)

Subordination
Tyrosine hydroxylase; Norepinephrine; Locus coeruleus; Chronic stress; mRNA; In situ hybridization; Immunoautoradiography (Watanabe, Y. (32) 176)

Substance P
Diabetes mellitus; Diabetic neuropathy; Nerve growth factor; Iris; Trigeminal ganglion; Rat (Brewster, W.J. (29) 131)

Enkephalin; 6-Hydroxydopamine; Hybridization, in situ; Prefrontal cortical transection; Rat; Transplantation (Campbell, K. (29) 273)

Neurokinin-B; Muscarinic; Caudate-putamen; Nucleus accumbens (Lucas, L.R. (30) 181)

Opioid receptor; Morphine; Preprotachykinin A; Double in situ hybridization; Dorsal root ganglia; Primary afferent (Minami, M. (30) 203)

Substantia nigra
Tyrosine hydroxylase; Tyrosine hydroxylase mRNA; Tyrosine hydroxylase hnRNA; Parkinson's disease; 6-Hydroxydopamine; Hybridization, in situ; Intron-directed in situ hybridization (Sherman, T.G. (29) 285)

Subtractive cDNA cloning
Down regulation; Neuroblastoma cell; δ-Opioid receptor (Wick, M.J. (32) 171)

α1-Subunit
Voltage-dependent calcium channel; β-Subunit; Hybridization, in situ; Localization; Rat; Brain (Tanaka, O. (30) 1)

β-Subunit
Voltage-dependent calcium channel; α1-Subunit; Hybridization, in situ; Localization; Rat; Brain (Tanaka, O. (30) 1)

ζ1 Subunit
Glutamate receptor; *N*-Methyl-D-aspartate receptor; Baculovirus; Dichlorokynurenate; *N*-Glycosylation; Ion channel; *Spodoptera frugiperda* insect cell (Kawamoto, S. (30) 137)

Sulphated glycoprotein 2
Apoptosis; Brain; Epilepsy (Dragunow, M. (32) 279)

Superoxide dismutase
Peroxynitrite; *N*-Methyl-D-aspartate; Acetylcholine release; Sodium nitroprusside (Ohkuma, S. (31) 185)

c-fos mRNA; hsp70 mRNA; Traumatic brain injury; Free radical; Transgenic mouse; Spreading depression (Mikawa, S. (33) 288)

Suprachiasmatic nucleus
Vasoactive intestinal peptide; Constant darkness; Circadian rhythm; Hybridization, in situ; Rat (Okamura, H. (29) 358)

Photoperiod; Circadian rhythm; In situ hybridization; Vasopressin; Vasoactive intestinal peptide (Duncan, M.J. (32) 181)

Supraoptic nucleus
Excitatory amino acid; Hypothalamus; Androgen; Glutamate; *N*-Methyl-D-aspartate; NMDAR1; Castration; MK-801; Lateral septum; mRNA (Kus, L. (28) 55)

Histone H1°; Chromatin; Transcription; Cell nucleus; Neuron (Lafarga, M. (29) 317)

$GABA_A$ receptor; Hybridization, in situ; Immunocytochemistry; Oxytocin; Vasopressin; Hypothalamic paraventricular nucleus (Fenelon, V.S. (34) 45)

Sympathetic nervous system
Receptor, α-adrenergic; Pain; Gene expression; Hybridization, in situ; mRNA; Parasympathetic nervous system; Spinal cord (Smith, M.S. (34) 109)

Synapse
Amyloid precursor-like protein; Amyloid β protein precursor; Postsynaptic density; Cerebral cortex (Kim, T.-W. (32) 36)

Novel protein; Conserved; Drosophila; Musca; Calliphora (Reichmuth, C. (32) 45)

Agrin; Synaptic plasticity; Learning and memory; Seizure; Epilepsy; Gene expression (O'Connor, L.T. (33) 277)

Synapsin I mRNA
Morphine; Opiate tolerance; Locus coeruleus; Amygdala; Spinal cord; Hybridization, in situ (Matus-Leibovitch, N. (34) 221)

Synaptic cytoskeleton
Spectrin; Calpain; Long-term potentiation; Theta-burst stimulation; Organotypic culture (Vanderklish, P. (32) 25)

Synaptic plasma membrane
γ-Aminobutyric acid transport; Membrane potential (Gonçalves, P.P. (32) 161)

Synaptic plasticity
Agrin; Synapse; Learning and memory; Seizure; Epilepsy; Gene expression (O'Connor, L.T. (33) 277)

Synaptic proteins
Syntaxin; *Drosophila*; Dsynt1; Synaptic transmission; Neurotransmitter release (Cerezo, J.R. (29) 245)

Synaptic transmission
Syntaxin; *Drosophila*; Dsynt1; Synaptic proteins; Neurotransmitter release (Cerezo, J.R. (29) 245)

Synaptic vesicle protein
cDNA cloning; Subcellular distribution; Fatty acylation; Cysteine string protein (Mastrogiacomo, A. (28) 12)

Synaptogenesis
Neural cell adhesion molecule; Transient ischemia; Entorhinal cortex lesion; Neuronal sprouting; Reactive astrocyte; Hippocampus; Rat; Immunohistochemistry; Hybridization, in situ (Jucker, M. (28) 149)

Glutamate receptor; Down-regulation; Goldfish; Visual system; Gene expression (Ueda, H. (32) 151)

Synaptotagmin
Choline transport; Hemicholinium-3; C2 domain; *Xenopus* oocyte (O'Regan, S. (32) 135)

Syntaxin
Drosophila; Dsynt1; Synaptic transmission; Synaptic proteins; Neurotransmitter release (Cerezo, J.R. (29) 245)

T

Tandem repeat
Human dopamine D4 receptor; Full-length cDNA cloning; Tissue distribution; Retina; Improved polymerase chain reaction (Matsumoto, M. (29) 157)

Tardive dyskinesia
Haloperidol; Pilocarpine; Fos; Fos B; c-Jun; Jun B; Krox 20; Krox 24 (MacGibbon, G.A. (34) 294)

Tau
Apolipoprotein E; Genotype; Senile plaque; Neurofibrillary tangle; Cerebral amyloid angiopathy; β-Amyloid protein precursor; Gene expression (Oyama, F. (29) 92)

Tau protein
Neurogenesis; Neurofilament; Midblastula transition; Phosphorylation (Gervasi, C. (33) 192)

Alzheimer's disease; Protein phosphatase 1; Protein phosphatase 2A; Glycogen synthase kinase 3; MAP kinase (Baum, L. (34) 1)

Neurofibrillary tangle; Polymerase chain reaction; Differential splicing; Neurite varicosity (Pizzi, M. (34) 38)

Testosterone
Paraventricular hypothalamic nucleus; Medial amygdala; Nucleus reuniens; RNase protection; Radioimmunoassay (Strauss, K.I. (28) 81)

Gonadotropin releasing hormone receptor; Estradiol; Inositol phosphate; Hippocampus; Rat (Jennes, L. (33) 104)

Stress; Corticosteroid; $GABA_A$ receptor subunit; Hippocampus; Hybridization, in situ (Orchinik, M. (34) 29)

TGA codon
cDNA cloning; Selenoprotein; His-Pro rich domain; Brain; Bovine; Rat (Saijoh, K. (30) 301)

Theiler's virus
Demyelination; Remyelination; Natural autoantibody; Myelin; Multiple sclerosis (Asakura, K. (34) 283)

Theta-burst stimulation
Spectrin; Calpain; Long-term potentiation; Synaptic cytoskeleton; Organotypic culture (Vanderklish, P. (32) 25)

Timm's stain
Hybridization, in situ; Kainic acid; Mossy fiber sprouting; Protein F1; GAP-43; Pentobarbital; MK-801; *N*-Methyl-D-aspartate receptor; Seizure; Axonal growth; Hippocampus (McNamara, R.K. (33) 22)

Tissue distribution
Alternative splicing; Calcium; Calcium homeostasis; Calcium ATPase; Human brain; Polymerase chain reaction (Zacharias, D.A. (28) 263)

Human dopamine D4 receptor; Full-length cDNA cloning; Retina; Tandem repeat; Im-

proved polymerase chain reaction (Matsumoto, M. (29) 157)

Mouse apoD; Rat apoD; Nerve regeneration; apoE; LCAT; GCDFP-24 (Séguin, D. (30) 242)

Tissue-specific expression
cDNA cloning; Northern analysis; Lymphocyte activation; Gene activation (Wick, M.J. (32) 342)

Tolerance
Neuroblastoma; Opioid; Morphine; μ-Opioid receptor; Cyclic AMP (Chakrabarti, S. (30) 269)

Opioid peptide; Gene expression; Morphine; Neonate; Neuropeptide; Proenkephalin mRNA (Tempel, A. (33) 227)

Transcription
Glutathione transferase; Brain; Octamer; Luciferase; C6 glioma (Abramovitz, M. (28) 37)

$GABA_A$ receptor; Glutamate receptor; Plasticity; Cerebellar granule neuron; Nuclear run-on (Harris, B.T. (28) 338)

Serotonin 5-HT_{1a} receptor; Hippocampus; Corticosteroid hormone; Corticosteroid receptor; Receptor regulation (Zhong, P. (29) 23)

Histone H1°; Chromatin; Cell nucleus; Neuron; Supraoptic nucleus (Lafarga, M. (29) 317)

Serotonin 5-HT_2 receptor; Transcription factor; Glucocorticoid receptor; Promoter; c-Fos; c-Jun; AP-1; Luciferase (Garlow, S.J. (31) 201)

S100β; S-100; β-Amyloid; Alzheimer's disease; Trophic factor; Gliosis; Astrocytes; Gene regulation; Calcium-binding protein (Peña, L.A. (34) 118)

Stress (heat shock) protein; Stress (heat shock) response; Heat shock factor; Cerebral ischemia; Brain (Higashi, T. (34) 262)

Transcriptional regulation
Alzheimer's disease; β-Amyloid precursor protein; Heat shock element; Stress response (Dewji, N.N. (33) 245)

Dopamine β-hydroxylase; DBH negative regulatory element; Silencer; Transient transfection (Ishiguro, H. (34) 251)

Transcription factor
Hyperosmolar stress; Cyclic AMP response element binding protein; Phosphorylation; Immediate-early gene; c-*fos* (Shiromani, P.J. (29) 163)

Dopamine; Cocaine; Dynorphin; Binge; *zif*/268; c-*fos*; Hybridization, in situ; Nucleus accumbens; Opioid peptide (Daunais, J.B. (29) 201)

Axotomy; Retinal ganglion cell; Regeneration; Immediate-early gene; Peripheral nerve grafting (Robinson, G.A. (30) 61)

COUP-TF I; ARP-1; In situ hybridization; Orphan receptor; Nuclear hormone receptor (Lopes da Silva, S. (30) 131)

Serotonin 5-HT_2 receptor; Glucocorticoid receptor; Promoter; c-Fos; c-Jun; AP-1; Luciferase; Transcription (Garlow, S.J. (31) 201)

Hormone receptor superfamily; Neurone (Matsui, T. (33) 217)

AP-1; Kainate; Neuronal plasticity; DNA binding (Pennypacker, K.R. (34) 161)

Transcription regulation
C-*fos*; Gene expression; Proenkephalin; Striatum (Ziółkowska, B. (34) 351)

Transfected cells
Neuropeptide Y Y_1 receptor; Hybridization, in situ; Autoradiography (Tong, Y. (34) 303)

Transfection
κ-Opioid receptor; G-protein; Adenylyl cyclase; CHO cell; U50-488H; Dynorphin-A(1–17) (Prather, P.L. (29) 336)

Hippocampus; Neurotrophic factor (Ueda, S. (29) 365)

Transforming growth factor-β superfamily
Bone morphogenetic protein; Neurotrophic factor; Developing brain; Neuron; Ischemic brain (Tomizawa, K. (28) 122)

Transgene
Vasoactive intestinal polypeptide; Quantitative PCR; Cryptic promoter; *lac*Z (Tolentino, P.J. (33) 47)

Transgenic mouse
Dopamine D_{1A} receptor; Regulatory sequence; β-Galactosidase (Severynse, D.M. (30) 336)

Calmodulin gene III; Neuron; Gene expression; Central nervous system; Development (Shimoda, K. (31) 61)

c-*fos* mRNA; hsp70 mRNA; Traumatic brain injury; Free radical; Superoxide dismutase; Spreading depression (Mikawa, S. (33) 288)

Transient ischemia
Neural cell adhesion molecule; Entorhinal cortex lesion; Neuronal sprouting; Synaptogenesis; Reactive astrocyte; Hippocampus; Rat; Immunohistochemistry; Hybridization, in situ (Jucker, M. (28) 149)

Transient middle cerebral artery occlusion
DNA fragmentation; Apoptosis; Mouse (Li, Y. (28) 164)

Transient transfection
Dopamine β-hydroxylase; DBH negative regulatory element; Silencer; Transcriptional regulation (Ishiguro, H. (34) 251)

Transplantation
Enkephalin; 6-Hydroxydopamine; Hybridization, in situ; Prefrontal cortical transection; Rat; Substance P (Campbell, K. (29) 273)

Transport
Aging; Degeneration; Uptake; Carrier; 5-Hydroxytryptamine; Raphe nucleus; Spinal cord; Hybridization, in situ (Meister, B. (33) 87)

Transporter
Promoter; Gene; Parkinson's disease; Cocaine (Donovan, D.M. (30) 327)

Traumatic brain injury
c-*fos* mRNA; hsp70 mRNA; Free radical; Superoxide dismutase; Transgenic mouse; Spreading depression (Mikawa, S. (33) 288)

TRE
Cyclosporin A; Pentylenetetrazol; Convulsion; AP-1; Electrophoretic mobility-shift assay; Rat brain (Asanuma, M. (33) 29)

Trefoil factor
Neuropeptide; Hypothalamus; P-domain; P-type; Hypothalamo-hypophysial system (Probst, J.C. (33) 269)

Trigeminal ganglion
Diabetes mellitus; Diabetic neuropathy; Substance P; Nerve growth factor; Iris; Rat (Brewster, W.J. (29) 131)

trk receptor
Low-affinity neurotrophin receptor; Co-expression; Dorsal root ganglion neuron; In situ hybridization; Rat (Kashiba, H. (30) 158)

Trophic factor
S100β; S-100; β-Amyloid; Alzheimer's disease; Gliosis; Astrocytes; Gene regulation; Transcription; Calcium-binding protein (Peña, L.A. (34) 118)

Tryptophan hydroxylase mRNA
Development; Rat pineal gland; Vimentin; Pinealocyte differentiation; Hybridization, in situ (Besançon, R. (29) 253)

α-Tubulin
ß-Actin; Brain ischemia; mRNA (Kumar, K. (30) 149)

TUNEL staining
Apoptosis; Programmed cell death; Stroke; Ischemia; Neurodegeneration; Neuronal death (Linnik, M.D. (32) 116)

Two-hybrid system
Bcl-2; Bax; Prion protein; Neurodegeneration; Gerstmann–Sträussler syndrome (Kurschner, C. (30) 165)

Type I receptor
Hippocampus; Arcuate nucleus; Locus coeruleus; Neuropeptide Y mRNA; Adrenalectomy; Adrenal steroid receptor Type II; Hybridization, in situ (Watanabe, Y. (28) 135)

Tyrosine hydroxylase
Amacrine cell; Ganglion cell; Nitric oxide synthase; Acetylcholine; Gene induction (Koistinaho, J. (29) 53)

Tyrosine hydroxylase mRNA; Tyrosine hydroxylase hnRNA; Parkinson's disease; 6-Hydroxydopamine; Hybridization, in situ; Intron-directed in situ hybridization; Substantia nigra (Sherman, T.G. (29) 285)

Norepinephrine; Locus coeruleus; Subordination; Chronic stress; mRNA; In situ hybridization; Immunoautoradiography (Watanabe, Y. (32) 176)

Estrogen receptor; Hybridization, in situ; PCR; Midbrain; Sex differentiation; Dopamine; Nigrostriatal system (Raab, H. (33) 157)

Calcium; Cyclic AMP; Gene expression; PC12; Phosphatidylinositide (Kim, K.S. (33) 254)

Tyrosine hydroxylase hnRNA
Tyrosine hydroxylase; Tyrosine hydroxylase mRNA; Parkinson's disease; 6-Hydroxydopa-

mine; Hybridization, in situ; Intron-directed in situ hybridization; Substantia nigra (Sherman, T.G. (29) 285)

Tyrosine hydroxylase mRNA
Tyrosine hydroxylase; Tyrosine hydroxylase hnRNA; Parkinson's disease; 6-Hydroxydopamine; Hybridization, in situ; Intron-directed in situ hybridization; Substantia nigra (Sherman, T.G. (29) 285)

Tyrosine kinase inhibitor
$GABA_A$ receptor; Phosphorylation; Protein tyrosine kinase; Src oncogene protein pp60v; Tyrphostin; Genistein (Valenzuela, C.F. (31) 165)

Tyrosine phosphatase
Polymerase chain reaction; Müller glia; Brain; Retina (Shock, L.P. (28) 110)

Tyrphostin
$GABA_A$ receptor; Phosphorylation; Protein tyrosine kinase; Src oncogene protein pp60v; Tyrosine kinase inhibitor; Genistein (Valenzuela, C.F. (31) 165)

U

U50-488H
κ-Opioid receptor; G-protein; Adenylyl cyclase; CHO cell; Transfection; Dynorphin-A(1–17) (Prather, P.L. (29) 336)

Upregulation
N-Methyl-D-aspartate receptor subunit mRNA level; Chronic ethanol treatment (Follesa, P. (29) 99)

Ethanol; *N*-Methyl-D-aspartate receptor; Ca^{2+}; Cortical neuron (Hu, X.-J. (30) 347)

Up-regulation
Neurotensin receptor; Dopamine; SR 48692; Antagonist; mRNA (Yamada, M. (33) 343)

Uptake
Aging; Degeneration; Carrier; Transport; 5-Hydroxytryptamine; Raphe nucleus; Spinal cord; Hybridization, in situ (Meister, B. (33) 87)

V

Vascular permeability factor
Adenosine; Endothelial cell; Gene expression; Porcine brain (Fischer, S. (28) 141)

Vasoactive intestinal peptide
Suprachiasmatic nucleus; Constant darkness; Circadian rhythm; Hybridization, in situ; Rat (Okamura, H. (29) 358)

Suprachiasmatic nucleus; Photoperiod; Circadian rhythm; In situ hybridization; Vasopressin (Duncan, M.J. (32) 181)

Vasoactive intestinal polypeptide
Transgene; Quantitative PCR; Cryptic promoter; *lac*Z (Tolentino, P.J. (33) 47)

Vasopressin
Suprachiasmatic nucleus; Photoperiod; Circadian rhythm; In situ hybridization; Vasoactive intestinal peptide (Duncan, M.J. (32) 181)

$GABA_A$ receptor; Hybridization, in situ; Immunocytochemistry; Oxytocin; Supraoptic nucleus; Hypothalamic paraventricular nucleus (Fenelon, V.S. (34) 45)

Angiotensin; Receptor; AT_1; Rat brain; Hypothalamus; Hybridization, in situ (Lenkei, Z. (34) 135)

c-*fos*; Cyclic AMP response element binding protein; Cyclic AMP responsive element modulator; Inducible cAMP early repressor; Oxytocin (Luckman, S.M. (34) 231)

Vector
Gene therapy; Neuron; Astrocyte; Protein targeting; Neurovirology (Lowenstein, P.R. (30) 169)

Herpes virus; Central nervous system; Hippocampus; Latent; β-Galactosidase; Gene therapy (Bloom, D.C. (31) 48)

Ventral tegmental area
Radioimmunocytochemistry; Mouse; Cerebellum; Hippocampus; Cellular protein quantitation; Neuroblastoma; Calbindin-D_{28k} (Ng, M.C. (32) 82)

Ventricular zone
Mouse Notch gene; Hybridization, in situ; Development; Circumventricular organ (Higuchi, M. (29) 263)

Ventrolateral medulla
Nucleus of the tractus solitarius; Cardiovascular regulation (Krukoff, T.L. (34) 99)

Ventrolateral thalamus
Gene expression; Fluorescence immunohistochemistry; Rhodamine latex microsphere; Neocortex (Senatorov, V.V. (30) 87)

Ventromedial hypothalamic nucleus
Preproenkephalin; mRNA; Hybridization, in situ; Estrogen; Acute estrogen; Reproductive behavior (Priest, C.A. (28) 251)

Ventromedial hypothalamus
Estrous cycle; Preproenkephalin mRNA; Hybridization, in situ; Calcineurin; Glyceraldehyde-3-phosphate-dehydrogenase (Funabashi, T. (28) 129)

Ventromedial nucleus
Medial preoptic nucleus; Medial amygdala; Arcuate; Postpartum; Maternal behavior; Riboprobe (Wagner, C.K. (33) 127)

Ventromedial nucleus of the hypothalamus
β-Preprotachykinin mRNA; Estrogen; Hybridization, in situ (Priest, C.A. (28) 61)

VGF
Cysteamine; Duodenal ulcer; In situ hybridization; Dorsal motor nucleus of vagus; Nucleus tractus solitarius; Nerve growth factor (Kanemasa, K. (32) 55)

Cysteamine; Duodenal ulcer; Hybridization, in situ; Nucleus tractus solitarii; Dorsal motor nucleus of vagus (Kanemasa, K. (34) 309)

Vimentin
Tryptophan hydroxylase mRNA; Development; Rat pineal gland; Pinealocyte differentiation; Hybridization, in situ (Besançon, R. (29) 253)

Visual cortex
Barrel cortex; CREB; *Fos*; *Jun*; Octamer (Kaminska, B. (33) 295)

Visual system
Glutamate receptor; Synaptogenesis; Down-regulation; Goldfish; Gene expression (Ueda, H. (32) 151)

Voltage-dependent calcium channel
α1-Subunit; β-Subunit; Hybridization, in situ; Localization; Rat; Brain (Tanaka, O. (30) 1)

W

Weaver mutant mouse
Insulin-like growth factor I; Cerebellar development; Gene expression; External germinal layer (Lee, W.-H. (30) 259)

Whisker-related neuronal pattern
ε4 subunit; *N*-Methyl-D-aspartate receptor channel; Glutamate receptor; Gene targeting; Spontaneous behavioral activity; Exploratory behavior (Ikeda, K. (33) 61)

Wild running
Fyn tyrosine kinase; Mutant mouse; Gene targeting; Audiogenic seizure; Acoustic priming; Clonic–tonic convulsion (Miyakawa, T. (28) 349)

Wound repair
Infarction; Astrocyte; Microglia; IGF-II; IGF-I; Gene expression (Beilharz, E.J. (29) 81)

X

***Xenopus* oocyte**
Choline transport; Hemicholinium-3; Synaptotagmin; C2 domain (O'Regan, S. (32) 135)

Opioid receptor; G-protein; Phospholipase C; Signal transduction; Protein kinase inhibitor (Ueda, H. (32) 166)

Y

Y chromosome
Sry; Sexual dimorphism; Mammal; Hypothalamus; Midbrain (Lahr, G. (33) 179)

Z

lacZ
Vasoactive intestinal polypeptide; Transgene; Quantitative PCR; Cryptic promoter (Tolentino, P.J. (33) 47)

ZENK
Environmental complexity; Immediate-early gene; NGFI-A; Zif/268; Cortical column; Neuroanatomical plasticity (Wallace, C.S. (32) 211)

Zeta (ζ) opioid receptor
Nervous system; Development; Embryology; Growth; Gene expression; Peptide; Enkephalin; Caudate putamen; Cerebellum; Brain development (Zagon, I.S. (33) 111)

zif/268
Dopamine; Cocaine; Dynorphin; Binge; c-*fos*; Hybridization, in situ; Nucleus accumbens; Transcription factor; Opioid peptide (Daunais, J.B. (29) 201)

Environmental complexity; Immediate-early gene; ZENK; NGFI-A; Cortical column; Neuroanatomical plasticity (Wallace, C.S. (32) 211)

Zinc finger
NGFI-C; Barrel cortex; Plasticity; Seizure (Mack, K.J. (29) 140)

Zinc finger transcription factor
Immediate early gene; α-Adrenoceptor; Cortex; Caudate putamen; Hippocampus; Hybridization histochemistry, in situ (Shen, P.-J. (28) 222)

BRAIN RESEARCH REVIEWS
SUBJECT INDEX
1995
VOLUMES 20–21

A

Ackermann, R.F., see Handforth, A. (20) 1

B

Blokland, A.
Acetylcholine: a neurotransmitter for learning and memory? (21) 285
Bressler, S.L.
Large-scale cortical networks and cognition (20) 288

C

Clark, M., see Weiss, S.R.B. (20) 305

D

De Waele, C., Mühlethaler, M. and Vidal, P.P.
Neurochemistry of the central vestibular pathways (20) 24
Dragunow, M. and Preston, K.
The role of inducible transcription factors in apoptotic nerve cell death (21) 1
Dragunow, M., see Glass, M. (21) 29

E

Ellison, G.
The *N*-methyl-D-aspartate antagonists phencyclidine, ketamine and dizocilpine as both behavioral and anatomical models of the dementias (20) 250

F

Farooqui, A.A., Yang, H.-C. and Horrocks, L.A.
Plasmalogens, phospholipases A_2 and signal transduction (21) 152
Fontana, A., see Weller, M. (21) 128
Frankland, P.W., see Yeomans, J.S. (21) 301

G

Gehrmann, J., Matsumoto, Y. and Kreutzberg, G.W.
Microglia: intrinsic immuneffector cell of the brain (20) 269
Glass, M. and Dragunow, M.
Neurochemical and morphological changes associated with human epilepsy (21) 29
Görcs, T.J., see Lantos, T.Á. (20) 209

H

Handforth, A. and Ackermann, R.F.
Mapping of limbic seizure progressions utilizing the electrogenic status epilepticus model and the ^{14}C-2-deoxyglucose method (20) 1
Hanisch, U.-K. and Quirion, R.
Interleukin-2 as a neuroregulatory cytokine (21) 246
Haring, J.H., see Pubols Jr., B.H. (20) 196
Hazrati, L.-N., see Parent, A. (20) 128
Hazrati, L.-N., see Parent, A. (20) 91
Henley, C.M. and Rybak, L.P.
Ototoxicity in developing mammals (20) 68
Hergueta, S., see Ward, R. (20) 155
Holst, M.-C., see Wang, F.B. (21) 93
Horrocks, L.A., see Farooqui, A.A. (21) 152

I

Ishii, D.N.
Implication of insulin-like growth factors in the pathogenesis of diabetic neuropathy (20) 47
Izquierdo, I., see Medina, J.H. (21) 185

J

Jin, Z., see Schweitzer, L. (20) 185

K

Kreutzberg, G.W., see Gehrmann, J. (20) 269

L

Lantos, T.Á., Görcs, T.J. and Palkovits, M.
Immunohistochemical mapping of neuropeptides in the premamillary region of the hypothalamus in rats (20) 209
Lemire, M., see Ward, R. (20) 155

M

Markowitsch, H.J.
Which brain regions are critically involved in the retrieval of old episodic memory? (21) 117
Matsumoto, Y., see Gehrmann, J. (20) 269
McGeer, E.G., see McGeer, P.L. (21) 195
McGeer, P.L. and McGeer, E.G.
The inflammatory response system of brain: implications for therapy of Alzheimer and other neurodegenerative diseases (21) 195
Medina, J.H. and Izquierdo, I.
Retrograde messengers, long-term potentiation and memory (21) 185
Miceli, D., see Ward, R. (20) 155
Mühlethaler, M., see De Waele, C. (20) 24

P

Palkovits, M., see Lantos, T.Á. (20) 209
Parent, A. and Hazrati, L.-N.
Functional anatomy of the basal ganglia. I. The cortico-basal ganglia-thalamo-cortical loop (20) 91

Parent, A. and Hazrati, L.-N.
Functional anatomy of the basal ganglia. II. The place of subthalamic nucleus and external pallidum in basal ganglia circuitry (20) 128
Pennartz, C.M.A.
The ascending neuromodulatory systems in learning by reinforcement: comparing computational conjectures with experimental findings (21) 219
Pinault, D.
Backpropagation of action potentials generated at ectopic axonal loci: hypothesis that axon terminals integrate local environmental signals (21) 42
Post, R.M., see Weiss, S.R.B. (20) 305
Powley, T.L., see Wang, F.B. (21) 93
Preston, K., see Dragunow, M. (21) 1
Pubols Jr., B.H. and Haring, J.H.
The raccoon spinocervical and spinothalamic tracts: a horseradish peroxidase study (20) 196

Q

Quirion, R., see Hanisch, U.-K. (21) 246

R

Renehan, W.E., see Schweitzer, L. (20) 185
Repérant, J., see Ward, R. (20) 155
Rosen, J.B., see Weiss, S.R.B. (20) 305
Rybak, L.P., see Henley, C.M. (20) 68

S

Schweitzer, L., Jin, Z., Zhang, X. and Renehan, W.E.
Cell types in the rostral nucleus of the solitary tract (20) 185
Shea, T.B.
Role of glial-derived nexin in neuronal differentiation and in acute brain injury and potential involvement in exacerbation of neurodegeneration in Alzheimer's disease (20) 171
Smith, M.A., see Weiss, S.R.B. (20) 305

V

Van Furth, W.R., Wolterink, G. and Van Ree, J.M.
Regulation of masculine sexual behavior: involvement of brain opioids and dopamine (21) 162
Van Ree, J.M., see Van Furth, W.R. (21) 162
Vidal, P.P., see De Waele, C. (20) 24

W

Wang, F.B., Holst, M.-C. and Powley, T.L.
The ratio of pre- to postganglionic neurons and related issues in the autonomic nervous system (21) 93
Ward, R., Repérant, J., Hergueta, S., Miceli, D. and Lemire, M.
Ipsilateral visual projections in non-eutherian species: random variation in the central nervous system? (20) 155
Weiss, S.R.B., Clark, M., Rosen, J.B., Smith, M.A. and Post, R.M.
Contingent tolerance to the anticonvulsant effects of carbamazepine: relationship to loss of endogenous adaptive mechanisms (20) 305
Weller, M. and Fontana, A.
The failure of current immunotherapy for malignant glioma. Tumor-derived TGF-β, T-cell apoptosis, and the immune privilege of the brain (21) 128
Wolterink, G., see Van Furth, W.R. (21) 162

Y

Yang, H.-C., see Farooqui, A.A. (21) 152
Yeomans, J.S. and Frankland, P.W.
The acoustic startle reflex: neurons and connections (21) 301

Z

Zhang, X., see Schweitzer, L. (20) 185

BRAIN RESEARCH REVIEWS
AUTHOR INDEX
1995
VOLUMES 20–21

A

Acetylcholine
Dopamine; Long-term potentiation; Memory; Noradrenaline; Supervised learning; Synaptic plasticity; Temporal difference learning (Pennartz, C.M.A. (21) 219)

Alzheimer's disease; Cholinergic; Cognition; Dopamine; Glutamate; Learning; Memory; Muscarine; Nicotin; Serotonin (Blokland, A. (21) 285)

Acute brain injury
Glial-derived nexin; Amyloid precursor protein; Growth factor; Neuronal differentiation; Neurodegeneration; Regeneration; Alzheimer's disease (Shea, T.B. (20) 171)

Adenosine
Seizure; Glutamate; γ-Aminobutyric acid; Sprouting; Transcription factor (Glass, M. (21) 29)

Alzheimer's
N-Methyl-D-aspartate antagonist; Phencyclidine; Dizocilpine; Hippocampus; Entorhinal cortex; Cingulate cortex; Neurotoxicity; Dementia; Schizophrenia (Ellison, G. (20) 250)

Programmed cell death; *Jun*; Immediate–early gene; Status epilepticus; Parkinson; Huntington; Stroke (Dragunow, M. (21) 1)

Alzheimer's disease
Glial-derived nexin; Amyloid precursor protein; Growth factor; Neuronal differentiation; Acute brain injury; Neurodegeneration; Regeneration (Shea, T.B. (20) 171)

Acetylcholine; Cholinergic; Cognition; Dopamine; Glutamate; Learning; Memory; Muscarine; Nicotin; Serotonin (Blokland, A. (21) 285)

γ-Aminobutyric acid
Contingent tolerance; Anticonvulsant; Kindling; Thyrotropin-releasing-hormone; Corticotropin-releasing-factor; Neuropeptide Y; Growth factor; Carbamazepine (Weiss, S.R.B. (20) 305)

Seizure; Glutamate; Adenosine; Sprouting; Transcription factor (Glass, M. (21) 29)

Aminoglycoside antibiotics
Hearing; Ototoxicity; Development; Loop diuretics; Cochlea; Auditory function (Henley, C.M. (20) 68)

Amygdala
Seizure; Status epilepticus; Kindling; Hippocampus; Limbic system; Deoxyglucose (Handforth, A. (20) 1)

Amyloid precursor protein
Glial-derived nexin; Growth factor; Neuronal differentiation; Acute brain injury; Neurodegeneration; Regeneration; Alzheimer's disease (Shea, T.B. (20) 171)

Animal study
Sexual behavior; Endogenous opioid; Dopamine; Male (Van Furth, W.R. (21) 162)

Anticonvulsant
Contingent tolerance; Kindling; Thyrotropin-releasing-hormone; γ-Aminobutyric acid; Corticotropin-releasing-factor; Neuropeptide Y; Growth factor; Carbamazepine (Weiss, S.R.B. (20) 305)

Antidromic
Burst synchronization; Cognitive cellular process; Epilepsy; Non-synaptic mechanism; Presynaptic; Synaptic plasticity; Thalamocortical network; Invertebrate network (Pinault, D. (21) 42)

Antigen presentation
Microglia; Astrocyte; Autoimmunity; Central nervous system injury; Cytotoxicity; Inflammation (Gehrmann, J. (20) 269)

Anti-inflammatory agent
Complement; Microglia; Astrocyte; Cytokine (McGeer, P.L. (21) 195)

Apoptosis
Malignant glioma; Immunosuppression; TGF-β; TNF-α; Fas/APO-1; Immunotherapy (Weller, M. (21) 128)

Arachidonic acid
Docosahexaenoic acid; Eicosanoid; Ischemia; Phospholipase A_2; Plasmalogen; Signal transduction (Farooqui, A.A. (21) 152)

Learning; Memory; Long-term potentiation retrograde messenger; NO; CO; Platelet-activating factor (Medina, J.H. (21) 185)

Arcuate nucleus
Posterior hypothalamus; Premamillary nucleus; Tuberomamillary nucleus; Supramamillary nucleus; Posterior hypothalamic nucleus; Immunohistochemistry; Neuropeptide (Lantos, T.Á. (20) 209)

Astrocyte
Microglia; Autoimmunity; Central nervous system injury; Cytotoxicity; Antigen presentation; Inflammation (Gehrmann, J. (20) 269)

Complement; Microglia; Cytokine; Anti-inflammatory agent (McGeer, P.L. (21) 195)

Auditory function
Hearing; Ototoxicity; Development; Loop diuretics; Cochlea; Aminoglycoside antibiotics (Henley, C.M. (20) 68)

Autoimmunity
Microglia; Astrocyte; Central nervous system injury; Cytotoxicity; Antigen presentation; Inflammation (Gehrmann, J. (20) 269)

Autonomic ganglia
Axonal branching; Bifurcation; Convergence; Divergence; Enteric nervous system; Parasympathetic; Sympathetic (Wang, F.B. (21) 93)

Axonal branching
Autonomic ganglia; Bifurcation; Convergence; Divergence; Enteric nervous system; Parasympathetic; Sympathetic (Wang, F.B. (21) 93)

Axonopathy
Neurotrophic factor; Somatomedin; Diabetic complication; Diabetes mellitus (Ishii, D.N. (20) 47)

B

Basal ganglia
Striatum; Globus pallidus; Thalamus; Substantia nigra; Pedunculopontine nucleus; Striatopallidal connection; Striatonigral connection; Pallidothalamic connection (Parent, A. (20) 91)

Subthalamic nucleus; Globus pallidus; Indirect pathway; Central information integrator; Pallido–pallidal connection; Squirrel monkey (Parent, A. (20) 128)

Bifurcation
Autonomic ganglia; Axonal branching; Convergence; Divergence; Enteric nervous system; Parasympathetic; Sympathetic (Wang, F.B. (21) 93)

Blood–brain barrier
Immunoregulator; Transmitter release; Neuroendocrine; Neurotoxicity; Glial cells (Hanisch, U.-K. (21) 246)

Burst synchronization
Antidromic; Cognitive cellular process; Epilepsy; Non-synaptic mechanism; Presynaptic; Synaptic plasticity; Thalamocortical network; Invertebrate network (Pinault, D. (21) 42)

C

Carbamazepine
Contingent tolerance; Anticonvulsant; Kindling; Thyrotropin-releasing-hormone; γ-Aminobutyric acid; Corticotropin-releasing-factor; Neuropeptide Y; Growth factor (Weiss, S.R.B. (20) 305)

Central information integrator
Basal ganglia; Subthalamic nucleus; Globus pallidus; Indirect pathway; Pallido–pallidal connection; Squirrel monkey (Parent, A. (20) 128)

Central nervous system injury
Microglia; Astrocyte; Autoimmunity; Cytotoxicity; Antigen presentation; Inflammation (Gehrmann, J. (20) 269)

Cerebral cortex
Cognition; Neural network; Temporal synchronization; Cross-correlation (Bressler, S.L. (20) 288)

Cholinergic
Acetylcholine; Alzheimer's disease; Cognition; Dopamine; Glutamate; Learning; Memory; Muscarine; Nicotin; Serotonin (Blokland, A. (21) 285)

Cingulate cortex
N-Methyl-D-aspartate antagonist; Phencyclidine; Dizocilpine; Hippocampus; Entorhinal

cortex; Neurotoxicity; Dementia; Schizophrenia; Alzheimer's (Ellison, G. (20) 250)

Cluster analysis
Taste; Gustation; Nucleus tractus solitarius; Neurobiotin; Three-dimensional reconstruction (Schweitzer, L. (20) 185)

CO
Learning; Memory; Long-term potentiation retrograde messenger; NO; Platelet-activating factor; Arachidonic acid (Medina, J.H. (21) 185)

Cochlea
Hearing; Ototoxicity; Development; Loop diuretics; Auditory function; Aminoglycoside antibiotics (Henley, C.M. (20) 68)

Cochlear nucleus
Collision; Reticular formation; Giant neuron; Conduction time; Reticulospinal; Synapse (Yeomans, J.S. (21) 301)

Cognition
Cerebral cortex; Neural network; Temporal synchronization; Cross-correlation (Bressler, S.L. (20) 288)

Acetylcholine; Alzheimer's disease; Cholinergic; Dopamine; Glutamate; Learning; Memory; Muscarine; Nicotin; Serotonin (Blokland, A. (21) 285)

Cognitive cellular process
Antidromic; Burst synchronization; Epilepsy; Non-synaptic mechanism; Presynaptic; Synaptic plasticity; Thalamocortical network; Invertebrate network (Pinault, D. (21) 42)

Collision
Cochlear nucleus; Reticular formation; Giant neuron; Conduction time; Reticulospinal; Synapse (Yeomans, J.S. (21) 301)

Complement
Microglia; Astrocyte; Cytokine; Anti-inflammatory agent (McGeer, P.L. (21) 195)

Conduction time
Collision; Cochlear nucleus; Reticular formation; Giant neuron; Reticulospinal; Synapse (Yeomans, J.S. (21) 301)

Contingent tolerance
Anticonvulsant; Kindling; Thyrotropin-releasing-hormone; γ-Aminobutyric acid; Corticotropin-releasing-factor; Neuropeptide Y; Growth factor; Carbamazepine (Weiss, S.R.B. (20) 305)

Convergence
Autonomic ganglia; Axonal branching; Bifurcation; Divergence; Enteric nervous system; Parasympathetic; Sympathetic (Wang, F.B. (21) 93)

Corticotropin-releasing-factor
Contingent tolerance; Anticonvulsant; Kindling; Thyrotropin-releasing-hormone; γ-Aminobutyric acid; Neuropeptide Y; Growth factor; Carbamazepine (Weiss, S.R.B. (20) 305)

Cross-correlation
Cerebral cortex; Cognition; Neural network; Temporal synchronization (Bressler, S.L. (20) 288)

Cytokine
Complement; Microglia; Astrocyte; Anti-inflammatory agent (McGeer, P.L. (21) 195)

Cytotoxicity
Microglia; Astrocyte; Autoimmunity; Central nervous system injury; Antigen presentation; Inflammation (Gehrmann, J. (20) 269)

D

Dementia
N-Methyl-D-aspartate antagonist; Phencyclidine; Dizocilpine; Hippocampus; Entorhinal cortex; Cingulate cortex; Neurotoxicity; Schizophrenia; Alzheimer's (Ellison, G. (20) 250)

Deoxyglucose
Seizure; Status epilepticus; Kindling; Hippocampus; Amygdala; Limbic system (Handforth, A. (20) 1)

Development
Hearing; Ototoxicity; Loop diuretics; Cochlea; Auditory function; Aminoglycoside antibiotics (Henley, C.M. (20) 68)

Diabetes mellitus
Neurotrophic factor; Somatomedin; Diabetic complication; Axonopathy (Ishii, D.N. (20) 47)

Diabetic complication
Neurotrophic factor; Somatomedin; Diabetes mellitus; Axonopathy (Ishii, D.N. (20) 47)

Divergence
Autonomic ganglia; Axonal branching; Bifurcation; Convergence; Enteric nervous system; Parasympathetic; Sympathetic (Wang, F.B. (21) 93)

Dizocilpine
N-Methyl-D-aspartate antagonist; Phencyclidine; Hippocampus; Entorhinal cortex; Cingulate cortex; Neurotoxicity; Dementia; Schizophrenia; Alzheimer's (Ellison, G. (20) 250)

Docosahexaenoic acid
Arachidonic acid; Eicosanoid; Ischemia; Phospholipase A_2; Plasmalogen; Signal transduction (Farooqui, A.A. (21) 152)

Dopamine
Sexual behavior; Endogenous opioid; Animal study; Male (Van Furth, W.R. (21) 162)

Acetylcholine; Long-term potentiation; Memory; Noradrenaline; Supervised learning; Synaptic plasticity; Temporal difference learning (Pennartz, C.M.A. (21) 219)

Acetylcholine; Alzheimer's disease; Cholinergic; Cognition; Glutamate; Learning; Memory; Muscarine; Nicotin; Serotonin (Blokland, A. (21) 285)

E

Eicosanoid
Arachidonic acid; Docosahexaenoic acid; Ischemia; Phospholipase A_2; Plasmalogen; Signal transduction (Farooqui, A.A. (21) 152)

Endogenous opioid
Sexual behavior; Dopamine; Animal study; Male (Van Furth, W.R. (21) 162)

Enteric nervous system
Autonomic ganglia; Axonal branching; Bifurcation; Convergence; Divergence; Parasympathetic; Sympathetic (Wang, F.B. (21) 93)

Entorhinal cortex
N-Methyl-D-aspartate antagonist; Phencyclidine; Dizocilpine; Hippocampus; Cingulate cortex; Neurotoxicity; Dementia; Schizophrenia; Alzheimer's (Ellison, G. (20) 250)

Epilepsy
Antidromic; Burst synchronization; Cognitive cellular process; Non-synaptic mechanism; Presynaptic; Synaptic plasticity; Thalamocortical network; Invertebrate network (Pinault, D. (21) 42)

Episodic memory
Retrograde amnesia; Memory; Temporal pole; Prefrontal cortex; Positron emission tomography; Knowledge system (Markowitsch, H.J. (21) 117)

F

Fas / APO-1
Malignant glioma; Immunosuppression; TGF-β; TNF-α; Apoptosis; Immunotherapy (Weller, M. (21) 128)

G

Genetic drift
Ipsilateral visual pathway; Non-eutherian species; Random variation (Ward, R. (20) 155)

Giant neuron
Collision; Cochlear nucleus; Reticular formation; Conduction time; Reticulospinal; Synapse (Yeomans, J.S. (21) 301)

Glial cells
Immunoregulator; Blood–brain barrier; Transmitter release; Neuroendocrine; Neurotoxicity (Hanisch, U.-K. (21) 246)

Glial-derived nexin
Amyloid precursor protein; Growth factor; Neuronal differentiation; Acute brain injury; Neurodegeneration; Regeneration; Alzheimer's disease (Shea, T.B. (20) 171)

Globus pallidus
Basal ganglia; Striatum; Thalamus; Substantia nigra; Pedunculopontine nucleus; Striatopallidal connection; Striatonigral connection; Pallidothalamic connection (Parent, A. (20) 91)

Basal ganglia; Subthalamic nucleus; Indirect pathway; Central information integrator; Pallido–pallidal connection; Squirrel monkey (Parent, A. (20) 128)

Glutamate
Seizure; γ-Aminobutyric acid; Adenosine; Sprouting; Transcription factor (Glass, M. (21) 29)

Acetylcholine; Alzheimer's disease; Cholinergic; Cognition; Dopamine; Learning; Memory; Muscarine; Nicotin; Serotonin (Blokland, A. (21) 285)

Growth factor
Glial-derived nexin; Amyloid precursor protein; Neuronal differentiation; Acute brain injury; Neurodegeneration; Regeneration; Alzheimer's disease (Shea, T.B. (20) 171)

Contingent tolerance; Anticonvulsant; Kindling; Thyrotropin-releasing-hormone; γ-Aminobutyric acid; Corticotropin-releasing-factor; Neuropeptide Y; Carbamazepine (Weiss, S.R.B. (20) 305)

Gustation
Taste; Nucleus tractus solitarius; Neurobiotin; Three-dimensional reconstruction; Cluster analysis (Schweitzer, L. (20) 185)

H

Hearing
Ototoxicity; Development; Loop diuretics; Cochlea; Auditory function; Aminoglycoside antibiotics (Henley, C.M. (20) 68)

Hippocampus
Seizure; Status epilepticus; Kindling; Amygdala; Limbic system; Deoxyglucose (Handforth, A. (20) 1)

N-Methyl-D-aspartate antagonist; Phencyclidine; Dizocilpine; Entorhinal cortex; Cingulate cortex; Neurotoxicity; Dementia; Schizophrenia; Alzheimer's (Ellison, G. (20) 250)

Huntington
Programmed cell death; *Jun*; Immediate–early gene; Status epilepticus; Parkinson; Alzheimer's; Stroke (Dragunow, M. (21) 1)

I

Immediate–early gene
Programmed cell death; *Jun*; Status epilepticus; Parkinson; Huntington; Alzheimer's; Stroke (Dragunow, M. (21) 1)

Immunohistochemistry
Posterior hypothalamus; Premamillary nucleus; Tuberomamillary nucleus; Supramamillary nucleus; Posterior hypothalamic nucleus; Arcuate nucleus; Neuropeptide (Lantos, T.Á. (20) 209)

Immunoregulator
Blood–brain barrier; Transmitter release; Neuroendocrine; Neurotoxicity; Glial cells (Hanisch, U.-K. (21) 246)

Immunosuppression
Malignant glioma; TGF-β; TNF-α; Fas/APO-1; Apoptosis; Immunotherapy (Weller, M. (21) 128)

Immunotherapy
Malignant glioma; Immunosuppression; TGF-β; TNF-α; Fas/APO-1; Apoptosis (Weller, M. (21) 128)

Indirect pathway
Basal ganglia; Subthalamic nucleus; Globus pallidus; Central information integrator; Pallido–pallidal connection; Squirrel monkey (Parent, A. (20) 128)

Inflammation
Microglia; Astrocyte; Autoimmunity; Central nervous system injury; Cytotoxicity; Antigen presentation (Gehrmann, J. (20) 269)

Invertebrate network
Antidromic; Burst synchronization; Cognitive cellular process; Epilepsy; Non-synaptic mechanism; Presynaptic; Synaptic plasticity; Thalamocortical network (Pinault, D. (21) 42)

Ipsilateral visual pathway
Non-eutherian species; Genetic drift; Random variation (Ward, R. (20) 155)

Ischemia
Arachidonic acid; Docosahexaenoic acid; Eicosanoid; Phospholipase A_2; Plasmalogen; Signal transduction (Farooqui, A.A. (21) 152)

J

Jun
Programmed cell death; Immediate–early gene; Status epilepticus; Parkinson; Huntington; Alzheimer's; Stroke (Dragunow, M. (21) 1)

K

Kindling
Seizure; Status epilepticus; Hippocampus; Amygdala; Limbic system; Deoxyglucose (Handforth, A. (20) 1)

Contingent tolerance; Anticonvulsant; Thyrotropin-releasing-hormone; γ-Aminobutyric acid; Corticotropin-releasing-factor; Neuropeptide Y; Growth factor; Carbamazepine (Weiss, S.R.B. (20) 305)

Knowledge system
Retrograde amnesia; Memory; Temporal pole; Prefrontal cortex; Positron emission tomography; Episodic memory (Markowitsch, H.J. (21) 117)

L

Lateral cervical nucleus
Somatosensory pathway; Spinal dorsal horn; Thalamic ventrobasal complex; Wheat germ agglutinin-horseradish peroxidase (Pubols Jr., B.H. (20) 196)

Learning
Memory; Long-term potentiation retrograde messenger; NO; CO; Platelet-activating factor; Arachidonic acid (Medina, J.H. (21) 185)

Acetylcholine; Alzheimer's disease; Cholinergic; Cognition; Dopamine; Glutamate; Memory; Muscarine; Nicotin; Serotonin (Blokland, A. (21) 285)

Limbic system
Seizure; Status epilepticus; Kindling; Hippocampus; Amygdala; Deoxyglucose (Handforth, A. (20) 1)

Long-term potentiation
Acetylcholine; Dopamine; Memory; Noradrenaline; Supervised learning; Synaptic plasticity; Temporal difference learning (Pennartz, C.M.A. (21) 219)

Long-term potentiation retrograde messenger
Learning; Memory; NO; CO; Platelet-activating factor; Arachidonic acid (Medina, J.H. (21) 185)

Loop diuretics
Hearing; Ototoxicity; Development; Cochlea; Auditory function; Aminoglycoside antibiotics (Henley, C.M. (20) 68)

M

Male
Sexual behavior; Endogenous opioid; Dopamine; Animal study (Van Furth, W.R. (21) 162)

Malignant glioma
Immunosuppression; TGF-β; TNF-α; Fas/APO-1; Apoptosis; Immunotherapy (Weller, M. (21) 128)

Memory
Retrograde amnesia; Temporal pole; Prefrontal cortex; Positron emission tomography; Knowledge system; Episodic memory (Markowitsch, H.J. (21) 117)

Learning; Long-term potentiation retrograde messenger; NO; CO; Platelet-activating factor; Arachidonic acid (Medina, J.H. (21) 185)

Acetylcholine; Dopamine; Long-term potentiation; Noradrenaline; Supervised learning; Synaptic plasticity; Temporal difference learning (Pennartz, C.M.A. (21) 219)

Acetylcholine; Alzheimer's disease; Cholinergic; Cognition; Dopamine; Glutamate; Learning; Muscarine; Nicotin; Serotonin (Blokland, A. (21) 285)

***N*-Methyl-D-aspartate antagonist**
Phencyclidine; Dizocilpine; Hippocampus; Entorhinal cortex; Cingulate cortex; Neurotoxicity; Dementia; Schizophrenia; Alzheimer's (Ellison, G. (20) 250)

Microglia
Astrocyte; Autoimmunity; Central nervous system injury; Cytotoxicity; Antigen presentation; Inflammation (Gehrmann, J. (20) 269)

Complement; Astrocyte; Cytokine; Anti-inflammatory agent (McGeer, P.L. (21) 195)

Muscarine
Acetylcholine; Alzheimer's disease; Cholinergic; Cognition; Dopamine; Glutamate; Learning; Memory; Nicotin; Serotonin (Blokland, A. (21) 285)

N

Neural network
Cerebral cortex; Cognition; Temporal synchronization; Cross-correlation (Bressler, S.L. (20) 288)

Neurobiotin
Taste; Gustation; Nucleus tractus solitarius; Three-dimensional reconstruction; Cluster analysis (Schweitzer, L. (20) 185)

Neurodegeneration
Glial-derived nexin; Amyloid precursor protein; Growth factor; Neuronal differentiation; Acute brain injury; Regeneration; Alzheimer's disease (Shea, T.B. (20) 171)

Neuroendocrine
Immunoregulator; Blood–brain barrier; Transmitter release; Neurotoxicity; Glial cells (Hanisch, U.-K. (21) 246)

Neuronal differentiation
Glial-derived nexin; Amyloid precursor protein; Growth factor; Acute brain injury; Neurodegeneration; Regeneration; Alzheimer's disease (Shea, T.B. (20) 171)

Neuropeptide
Posterior hypothalamus; Premamillary nucleus; Tuberomamillary nucleus; Supramamillary nucleus; Posterior hypothalamic nucleus; Arcuate nucleus; Immunohistochemistry (Lantos, T.Á. (20) 209)

Neuropeptide Y
Contingent tolerance; Anticonvulsant; Kindling; Thyrotropin-releasing-hormone; γ-Aminobutyric acid; Corticotropin-releasing-factor; Growth factor; Carbamazepine (Weiss, S.R.B. (20) 305)

Neuropharmacology
Vestibular nucleus; Neurotransmitter; Vestibulo-oculomotor neuron; Vestibulo-spinal neuron (De Waele, C. (20) 24)

Neurotoxicity
N-Methyl-D-aspartate antagonist; Phencyclidine; Dizocilpine; Hippocampus; Entorhinal cortex; Cingulate cortex; Dementia; Schizophrenia; Alzheimer's (Ellison, G. (20) 250)

Immunoregulator; Blood–brain barrier; Transmitter release; Neuroendocrine; Glial cells (Hanisch, U.-K. (21) 246)

Neurotransmitter
Vestibular nucleus; Vestibulo-oculomotor neuron; Vestibulo-spinal neuron; Neuropharmacology (De Waele, C. (20) 24)

Neurotrophic factor
Somatomedin; Diabetic complication; Diabetes mellitus; Axonopathy (Ishii, D.N. (20) 47)

Nicotin
Acetylcholine; Alzheimer's disease; Cholinergic; Cognition; Dopamine; Glutamate; Learning; Memory; Muscarine; Serotonin (Blokland, A. (21) 285)

NO
Learning; Memory; Long-term potentiation retrograde messenger; CO; Platelet-activating factor; Arachidonic acid (Medina, J.H. (21) 185)

Non-eutherian species
Ipsilateral visual pathway; Genetic drift; Random variation (Ward, R. (20) 155)

Non-synaptic mechanism
Antidromic; Burst synchronization; Cognitive cellular process; Epilepsy; Presynaptic; Synaptic plasticity; Thalamocortical network; Invertebrate network (Pinault, D. (21) 42)

Noradrenaline
Acetylcholine; Dopamine; Long-term potentiation; Memory; Supervised learning; Synaptic plasticity; Temporal difference learning (Pennartz, C.M.A. (21) 219)

Nucleus tractus solitarius
Taste; Gustation; Neurobiotin; Three-dimensional reconstruction; Cluster analysis (Schweitzer, L. (20) 185)

O

Ototoxicity
Hearing; Development; Loop diuretics; Cochlea; Auditory function; Aminoglycoside antibiotics (Henley, C.M. (20) 68)

P

Pallido–pallidal connection
Basal ganglia; Subthalamic nucleus; Globus pallidus; Indirect pathway; Central information integrator; Squirrel monkey (Parent, A. (20) 128)

Pallidothalamic connection
Basal ganglia; Striatum; Globus pallidus; Thalamus; Substantia nigra; Pedunculopontine nucleus; Striatopallidal connection; Striatonigral connection (Parent, A. (20) 91)

Parasympathetic
Autonomic ganglia; Axonal branching; Bifurcation; Convergence; Divergence; Enteric nervous system; Sympathetic (Wang, F.B. (21) 93)

Parkinson
Programmed cell death; *Jun*; Immediate–early gene; Status epilepticus; Huntington; Alzheimer's; Stroke (Dragunow, M. (21) 1)

Pedunculopontine nucleus
Basal ganglia; Striatum; Globus pallidus; Thalamus; Substantia nigra; Striatopallidal connection; Striatonigral connection; Pallidothalamic connection (Parent, A. (20) 91)

Phencyclidine
N-Methyl-D-aspartate antagonist; Dizocilpine; Hippocampus; Entorhinal cortex; Cingulate cortex; Neurotoxicity; Dementia; Schizophrenia; Alzheimer's (Ellison, G. (20) 250)

Phospholipase A_2
Arachidonic acid; Docosahexaenoic acid; Eicosanoid; Ischemia; Plasmalogen; Signal transduction (Farooqui, A.A. (21) 152)

Plasmalogen
Arachidonic acid; Docosahexaenoic acid; Eicosanoid; Ischemia; Phospholipase A_2; Signal transduction (Farooqui, A.A. (21) 152)

Platelet-activating factor
Learning; Memory; Long-term potentiation retrograde messenger; NO; CO; Arachidonic acid (Medina, J.H. (21) 185)

Positron emission tomography
Retrograde amnesia; Memory; Temporal pole; Prefrontal cortex; Knowledge system; Episodic memory (Markowitsch, H.J. (21) 117)

Posterior hypothalamic nucleus
Posterior hypothalamus; Premamillary nucleus; Tuberomamillary nucleus; Supramamillary nucleus; Arcuate nucleus; Immunohistochemistry; Neuropeptide (Lantos, T.Á. (20) 209)

Posterior hypothalamus
Premamillary nucleus; Tuberomamillary nucleus; Supramamillary nucleus; Posterior hypothalamic nucleus; Arcuate nucleus; Immunohistochemistry; Neuropeptide (Lantos, T.Á. (20) 209)

Prefrontal cortex
Retrograde amnesia; Memory; Temporal pole; Positron emission tomography; Knowledge system; Episodic memory (Markowitsch, H.J. (21) 117)

Premamillary nucleus
Posterior hypothalamus; Tuberomamillary nucleus; Supramamillary nucleus; Posterior hypothalamic nucleus; Arcuate nucleus; Immunohistochemistry; Neuropeptide (Lantos, T.Á. (20) 209)

Presynaptic
Antidromic; Burst synchronization; Cognitive cellular process; Epilepsy; Non-synaptic mechanism; Synaptic plasticity; Thalamocortical network; Invertebrate network (Pinault, D. (21) 42)

Programmed cell death
Jun; Immediate–early gene; Status epilepticus; Parkinson; Huntington; Alzheimer's; Stroke (Dragunow, M. (21) 1)

R

Random variation
Ipsilateral visual pathway; Non-eutherian species; Genetic drift (Ward, R. (20) 155)

Regeneration
Glial-derived nexin; Amyloid precursor protein; Growth factor; Neuronal differentiation; Acute brain injury; Neurodegeneration; Alzheimer's disease (Shea, T.B. (20) 171)

Reticular formation
Collision; Cochlear nucleus; Giant neuron; Conduction time; Reticulospinal; Synapse (Yeomans, J.S. (21) 301)

Reticulospinal
Collision; Cochlear nucleus; Reticular formation; Giant neuron; Conduction time; Synapse (Yeomans, J.S. (21) 301)

Retrograde amnesia
Memory; Temporal pole; Prefrontal cortex; Positron emission tomography; Knowledge system; Episodic memory (Markowitsch, H.J. (21) 117)

S

Schizophrenia
N-Methyl-D-aspartate antagonist; Phencyclidine; Dizocilpine; Hippocampus; Entorhinal cortex; Cingulate cortex; Neurotoxicity; Dementia; Alzheimer's (Ellison, G. (20) 250)

Seizure
Status epilepticus; Kindling; Hippocampus; Amygdala; Limbic system; Deoxyglucose (Handforth, A. (20) 1)

Glutamate; γ-Aminobutyric acid; Adenosine; Sprouting; Transcription factor (Glass, M. (21) 29)

Serotonin
Acetylcholine; Alzheimer's disease; Cholinergic; Cognition; Dopamine; Glutamate; Learning; Memory; Muscarine; Nicotin (Blokland, A. (21) 285)

Sexual behavior
Endogenous opioid; Dopamine; Animal study; Male (Van Furth, W.R. (21) 162)

Signal transduction
Arachidonic acid; Docosahexaenoic acid; Eicosanoid; Ischemia; Phospholipase A_2; Plasmalogen (Farooqui, A.A. (21) 152)

Somatomedin
Neurotrophic factor; Diabetic complication; Diabetes mellitus; Axonopathy (Ishii, D.N. (20) 47)

Somatosensory pathway
Spinal dorsal horn; Lateral cervical nucleus; Thalamic ventrobasal complex; Wheat germ agglutinin-horseradish peroxidase (Pubols Jr., B.H. (20) 196)

Spinal dorsal horn
Somatosensory pathway; Lateral cervical nucleus; Thalamic ventrobasal complex; Wheat germ agglutinin-horseradish peroxidase (Pubols Jr., B.H. (20) 196)

Sprouting
Seizure; Glutamate; γ-Aminobutyric acid; Adenosine; Transcription factor (Glass, M. (21) 29)

Squirrel monkey
Basal ganglia; Subthalamic nucleus; Globus pallidus; Indirect pathway; Central information integrator; Pallido–pallidal connection (Parent, A. (20) 128)

Status epilepticus
Seizure; Kindling; Hippocampus; Amygdala; Limbic system; Deoxyglucose (Handforth, A. (20) 1)

Programmed cell death; *Jun*; Immediate–early gene; Parkinson; Huntington; Alzheimer's; Stroke (Dragunow, M. (21) 1)

Striatonigral connection
Basal ganglia; Striatum; Globus pallidus; Thalamus; Substantia nigra; Pedunculopontine nucleus; Striatopallidal connection; Pallidothalamic connection (Parent, A. (20) 91)

Striatopallidal connection
Basal ganglia; Striatum; Globus pallidus; Thalamus; Substantia nigra; Pedunculopontine nucleus; Striatonigral connection; Pallidothalamic connection (Parent, A. (20) 91)

Striatum
Basal ganglia; Globus pallidus; Thalamus; Substantia nigra; Pedunculopontine nucleus; Striatopallidal connection; Striatonigral connection; Pallidothalamic connection (Parent, A. (20) 91)

Stroke
Programmed cell death; *Jun*; Immediate–early gene; Status epilepticus; Parkinson; Huntington; Alzheimer's (Dragunow, M. (21) 1)

Substantia nigra
Basal ganglia; Striatum; Globus pallidus; Thalamus; Pedunculopontine nucleus; Striatopallidal connection; Striatonigral connection; Pallidothalamic connection (Parent, A. (20) 91)

Subthalamic nucleus
Basal ganglia; Globus pallidus; Indirect pathway; Central information integrator; Pallido–pallidal connection; Squirrel monkey (Parent, A. (20) 128)

Supervised learning
Acetylcholine; Dopamine; Long-term potentiation; Memory; Noradrenaline; Synaptic plasticity; Temporal difference learning (Pennartz, C.M.A. (21) 219)

Supramamillary nucleus
Posterior hypothalamus; Premamillary nucleus; Tuberomamillary nucleus; Posterior hypothalamic nucleus; Arcuate nucleus; Immunohistochemistry; Neuropeptide (Lantos, T.Á. (20) 209)

Sympathetic
Autonomic ganglia; Axonal branching; Bifurcation; Convergence; Divergence; Enteric nervous system; Parasympathetic (Wang, F.B. (21) 93)

Synapse
Collision; Cochlear nucleus; Reticular formation; Giant neuron; Conduction time; Reticulospinal (Yeomans, J.S. (21) 301)

Synaptic plasticity
Antidromic; Burst synchronization; Cognitive cellular process; Epilepsy; Non-synaptic mechanism; Presynaptic; Thalamocortical network; Invertebrate network (Pinault, D. (21) 42)

Acetylcholine; Dopamine; Long-term potentiation; Memory; Noradrenaline; Supervised learning; Temporal difference learning (Pennartz, C.M.A. (21) 219)

T

Taste
Gustation; Nucleus tractus solitarius; Neurobiotin; Three-dimensional reconstruction; Cluster analysis (Schweitzer, L. (20) 185)

Temporal difference learning
Acetylcholine; Dopamine; Long-term potentiation; Memory; Noradrenaline; Supervised learning; Synaptic plasticity (Pennartz, C.M.A. (21) 219)

Temporal pole
Retrograde amnesia; Memory; Prefrontal cortex; Positron emission tomography; Knowledge system; Episodic memory (Markowitsch, H.J. (21) 117)

Temporal synchronization
Cerebral cortex; Cognition; Neural network; Cross-correlation (Bressler, S.L. (20) 288)

TGF-β
Malignant glioma; Immunosuppression; TNF-α; Fas/APO-1; Apoptosis; Immunotherapy (Weller, M. (21) 128)

Thalamic ventrobasal complex
Somatosensory pathway; Spinal dorsal horn; Lateral cervical nucleus; Wheat germ agglutinin-horseradish peroxidase (Pubols Jr., B.H. (20) 196)

Thalamocortical network
Antidromic; Burst synchronization; Cognitive cellular process; Epilepsy; Non-synaptic mechanism; Presynaptic; Synaptic plasticity; Invertebrate network (Pinault, D. (21) 42)

Thalamus
Basal ganglia; Striatum; Globus pallidus; Substantia nigra; Pedunculopontine nucleus; Striatopallidal connection; Striatonigral connection; Pallidothalamic connection (Parent, A. (20) 91)

Three-dimensional reconstruction
Taste; Gustation; Nucleus tractus solitarius; Neurobiotin; Cluster analysis (Schweitzer, L. (20) 185)

Thyrotropin-releasing-hormone
Contingent tolerance; Anticonvulsant; Kindling; γ-Aminobutyric acid; Corticotropin-releasing-factor; Neuropeptide Y; Growth factor; Carbamazepine (Weiss, S.R.B. (20) 305)

TNF-α
Malignant glioma; Immunosuppression; TGF-β; Fas/APO-1; Apoptosis; Immunotherapy (Weller, M. (21) 128)

Transcription factor
Seizure; Glutamate; γ-Aminobutyric acid; Adenosine; Sprouting (Glass, M. (21) 29)

Transmitter release
Immunoregulator; Blood–brain barrier; Neuroendocrine; Neurotoxicity; Glial cells (Hanisch, U.-K. (21) 246)

Tuberomamillary nucleus
Posterior hypothalamus; Premamillary nucleus; Supramamillary nucleus; Posterior hypothalamic nucleus; Arcuate nucleus; Immunohistochemistry; Neuropeptide (Lantos, T.Á. (20) 209)

V

Vestibular nucleus
Neurotransmitter; Vestibulo-oculomotor neuron; Vestibulo-spinal neuron; Neuropharmacology (De Waele, C. (20) 24)

Vestibulo-oculomotor neuron
Vestibular nucleus; Neurotransmitter; Vestibulo-spinal neuron; Neuropharmacology (De Waele, C. (20) 24)

Vestibulo-spinal neuron
Vestibular nucleus; Neurotransmitter; Vestibulo-oculomotor neuron; Neuropharmacology (De Waele, C. (20) 24)

W

Wheat germ agglutinin-horseradish peroxidase
Somatosensory pathway; Spinal dorsal horn; Lateral cervical nucleus; Thalamic ventrobasal complex (Pubols Jr., B.H. (20) 196)

COGNITIVE BRAIN RESEARCH
SUBJECT INDEX
1995
VOLUME 2

A

Adams, M., see Reite, M. (2) 13
Alexander, J.E. and Polich, J.
P300 differences between sinistrals and dextrals (2) 277
Aragane, K., see Tachibana, H. (2) 173
Arendes, L.
Superior colliculus activity related to attention and to connotative stimulus meaning (2) 65
Aubert, E., see Olivares, E. (2) 39

B

Balog, J.P., see Howland, E.W. (2) 165
Bandettini, P.A., see Binder, J.R. (2) 31
Bertaina, V. and Destrade, C.
Differential time courses of c-*fos* mRNA expression in hippocampal subfields following acquisition and recall testing in mice (2) 269
Berthoz, A., see Leone, G. (2) 255
Binder, J.R., Rao, S.M., Hammeke, T.A., Frost, J.A., Bandettini, P.A. and Hyde, J.S.
Effects of stimulus rate on signal response during functional magnetic resonance imaging of auditory cortex (2) 31
Birbaumer, N., see Pauli, P. (2) 21
Birbaumer, N., see Schupp, H.T. (2) 77
Bobes, M.A., see Olivares, E. (2) 39
Bourne Jr., L.E., see Pauli, P. (2) 21
Braun, C., see Schupp, H.T. (2) 77
Brown, G.D.A., Hulme, C., Hyland, P.D. and Mitchell, I.J.
Cell suicide in the developing nervous system: a functional neural network model (2) 71
Burnod, Y., see Roby-Brami, A. (2) 229
Butt, C., see Verleger, R. (2) 103

C

Carobi, C. and Garinei, G.
Effect of capsaicin on learning, retention and extinction of spatial and active avoidance tasks in adult rats neonatally treated (2) 221
Claverie, B., see Guillem, F. (2) 147
Cleeland, C.S., see Howland, E.W. (2) 165

D

Destrade, C., see Bertaina, V. (2) 269
Dyon-Laurent, C., see Sara, S.J. (2) 181

E

Friedman, D. and Simpson, G.V.
ERP amplitude and scalp distribution to target and novel events: effects of temporal order in young, middle-aged and older adults (2) 49
Frost, J.A., see Binder, J.R. (2) 31

G

Garinei, G., see Carobi, C. (2) 221
Gibbs, M.E., see O'Dowd, B.S. (2) 93
Grabbe, R., see Reite, M. (2) 13
Guillem, F., N'Kaoua, B., Rougier, A. and Claverie, B.
Effects of temporal versus temporal plus extra-temporal lobe epilepsies on hippocampal ERPs: physiopathological implications for recognition memory studies in humans (2) 147
Gurfinkel, V., see Leone, G. (2) 255

H

Hammeke, T.A., see Binder, J.R. (2) 31
Harris, J.G., see Vaina, L.M. (2) 155
Heide, W., see Verleger, R. (2) 103
Heinze, H.J., see Johannes, S. (2) 189
Hervé, A., see Sara, S.J. (2) 181
Hirano, S., see Naito, Y. (2) 207
Hoji, W., see Naito, Y. (2) 207
Honjo, I., see Naito, Y. (2) 207
Hoshi, Y., see Okada, F. (2) 215
Howland, E.W., Wakai, R.T., Mjaanes, B.A., Balog, J.P. and Cleeland, C.S.
Whole head mapping of magnetic fields following painful electric finger shock (2) 165
Hulme, C., see Brown, G.D.A. (2) 71
Hyde, J.S., see Binder, J.R. (2) 31
Hyland, P.D., see Brown, G.D.A. (2) 71

I

Ilmoniemi, R.J., see Tesche, C.D. (2) 243
Inouye, T., Shinosaki, K., Iyama, A., Matsumoto, Y. and Toi, S.
Moving potential field of frontal midline theta activity during a mental task (2) 87
Ishizu, K., see Naito, Y. (2) 207
Iyama, A., see Inouye, T. (2) 87

J

Jagannathan, S., see Li, P.-K. (2) 251
Johannes, S., Münte, T.F., Heinze, H.J. and Mangun, G.R.
Luminance and spatial attention effects on early visual processing (2) 189
Johnson, D.A., see Li, P.-K. (2) 251

K

Kajola, M.J., see Tesche, C.D. (2) 243
Kawano, M., see Naito, Y. (2) 207
Kömpf, D., see Verleger, R. (2) 103
Kömpf, D., see Vieregge, P. (2) 117

L

Leone, G., Lipshits, M., Gurfinkel, V. and Berthoz, A.
Is there an effect of weightlessness on mental rotation of three-dimensional objects? (2) 255
Li, P.-K., Rhodes, M.E., Jagannathan, S. and Johnson, D.A.
Reversal of scopolamine induced amnesia in rats by the steroid sulfatase inhibitor estrone-3-O-sulfamate (2) 251
Lipshits, M., see Leone, G. (2) 255

Lutzenberger, W., see Pauli, P. (2) 21
Lutzenberger, W., see Schupp, H.T. (2) 77

M

Mangun, G.R., see Johannes, S. (2) 189
Matsumoto, Y., see Inouye, T. (2) 87
Matsumura, M., see Naito, E. (2) 131
Matsumura, M., see Naito, E. (2) 139
Miltner, W., see Schupp, H.T. (2) 77
Mitchell, I.J., see Brown, G.D.A. (2) 71
Mjaanes, B.A., see Howland, E.W. (2) 165
Münte, T.F., see Johannes, S. (2) 189

N

Naito, E. and Matsumura, M.
Movement-related potentials associated with motor inhibition as determined by use of a stop signal paradigm in humans (2) 139
Naito, E. and Matsumura, M.
Movement-related slow potentials during motor imagery and motor suppression in humans (2) 131
Naito, Y., Okazawa, H., Honjo, I., Hirano, S., Takahashi, H., Shiomi, Y., Hoji, W., Kawano, M., Ishizu, K. and Yonekura, Y.
Cortical activation with sound stimulation in cochlear implant users demonstrated by Positron Emission Tomography (2) 207
Nava, C., see Pineda, J.A. (2) 1
Ng, K.T., see O'Dowd, B.S. (2) 93
N'Kaoua, B., see Guillem, F. (2) 147

O

O'Dowd, B.S., Gibbs, M.E., Sedman, G.L. and Ng, K.T.
Astrocytes implicated in the energizing of intermediate memory processes in neonate chicks (2) 93
Okada, F., Tokumitsu, Y., Takahashi, N., Hoshi, Y. and Tamura, M.
Region-dependent asymmetrical or symmetrical variations in the oxygenation and hemodynamics of the brain due to different mental stimuli (2) 215
Okazawa, H., see Naito, Y. (2) 207
Olivares, E., Bobes, M.A., Aubert, E. and Valdes-Sosa, M.
Associative ERP effects with memories of artificial faces (2) 39

P

Pauli, P., Lutzenberger, W., Rau, H., Birbaumer, N., Rickard, T.C., Yaroush, R.A. and Bourne Jr., L.E.
Brain potentials during mental arithmetic: effects of extensive practice and problem difficulty (2) 21
Pineda, J.A., Sebestyen, G. and Nava, C.
Face recognition as a function of social attention in non-human primates: an ERP study (2) 1
Polich, J., see Alexander, J.E. (2) 277

R

Rao, S.M., see Binder, J.R. (2) 31
Rau, H., see Pauli, P. (2) 21
Reite, M., Adams, M., Simon, J., Teale, P., Sheeder, J., Richardson, D. and Grabbe, R.
Auditory M100 component 1: relationship to Heschl's gyri (2) 13
Rhodes, M.E., see Li, P.-K. (2) 251
Richardson, D., see Reite, M. (2) 13
Rickard, T.C., see Pauli, P. (2) 21
Roby-Brami, A. and Burnod, Y.
Learning a new visuomotor transformation: error correction and generalization (2) 229
Rougier, A., see Guillem, F. (2) 147

S

Sara, S.J., Dyon-Laurent, C. and Hervé, A.
Novelty seeking behavior in the rat is dependent upon the integrity of the noradrenergic system (2) 181
Schupp, H.T., Lutzenberger, W., Birbaumer, N., Miltner, W. and Braun, C.
Neurophysiological differences between perception and imagery (2) 77
Sebestyen, G., see Pineda, J.A. (2) 1
Sedman, G.L., see O'Dowd, B.S. (2) 93
Sheeder, J., see Reite, M. (2) 13
Shinosaki, K., see Inouye, T. (2) 87
Shiomi, Y., see Naito, Y. (2) 207
Simon, J., see Reite, M. (2) 13
Simpson, G.V., see Friedman, D. (2) 49
Stüven, F., see Vieregge, P. (2) 117
Sugita, M., see Tachibana, H. (2) 173
Sundareswaran, V., see Vaina, L.M. (2) 155

T

Tachibana, H., Aragane, K. and Sugita, M.
Event-related potentials in patients with cerebellar degeneration: electrophysiological evidence for cognitive impairment (2) 173
Takahashi, H., see Naito, Y. (2) 207
Takahashi, N., see Okada, F. (2) 215
Tamura, M., see Okada, F. (2) 215
Teale, P., see Reite, M. (2) 13
Tesche, C.D., Uusitalo, M.A., Ilmoniemi, R.J. and Kajola, M.J.
Characterizing the local oscillatory content of spontaneous cortical activity during mental imagery (2) 243
Toi, S., see Inouye, T. (2) 87
Tokumitsu, Y., see Okada, F. (2) 215

U

Uusitalo, M.A., see Tesche, C.D. (2) 243

V

Vaina, L.M., Sundareswaran, V. and Harris, J.G.
Learning to ignore: psychophysics and computational modeling of fast learning of direction in noisy motion stimuli (2) 155
Valdes-Sosa, M., see Olivares, E. (2) 39
Verleger, R., Heide, W., Butt, C. and Kömpf, D.
Reduction of $P3_b$ in patients with temporo-parietal lesions (2) 103

Verleger, R., see Vieregge, P. (2) 117
Vieregge, P., Verleger, R., Wascher, E., Stüven, F. and Kömpf, D.
Auditory selective attention is impaired in Parkinson's disease – event-related evidence from EEG potentials (2) 117

W

Wakai, R.T., see Howland, E.W. (2) 165
Wascher, E., see Vieregge, P. (2) 117

Y

Yaroush, R.A., see Pauli, P. (2) 21
Yonekura, Y., see Naito, Y. (2) 207

COGNITIVE BRAIN RESEARCH
AUTHOR INDEX
1995
VOLUME 2

A

Acquisition
Memory processes; Immediate-early gene; Hippocampus; Recall; Hybridization, in situ; Mouse brain; Neuronal plasticity (Bertaina, V. (2) 269)

Active avoidance learning
Capsaicin; Open-field behavior; Spatial learning; Retention; Extinction; Rat (Carobi, C. (2) 221)

Adaptation
Learning; Motor control; Visuomotor transformation; Visuomotor discrepancy; Trajectory; Computer mouse (Roby-Brami, A. (2) 229)

Aging
Novelty P3; Target P3; Scalp topography; Frontal lobe (Friedman, D. (2) 49)

Apoptosis
Cell death; Nervous system; Neural network; Computational model; Learning; Development (Brown, G.D.A. (2) 71)

Astrocyte
Memory; Chick; Energy; Metabolism; Oxidative metabolism; Glycolysis; Glycogenolysis; Fluorocitrate; Fluoroacetate; Iodoacetate (O'Dowd, B.S. (2) 93)

Attention
Superior colliculus; Awake monkey; Single-unit activity; Stimulus meaning; Face (Arendes, L. (2) 65)

Auditory cortex
Cerebral blood flow; Cerebral metabolism; Functional imaging; Speech perception; Temporal lobe (Binder, J.R. (2) 31)

Cochlear implant; Speech; Regional cerebral blood flow; Positron emission tomography (PET) (Naito, Y. (2) 207)

Auditory evoked field
Magnetoencephalography; Superior temporal gyrus; Heschl's gyrus; Temporal lobe (Reite, M. (2) 13)

Auditory selective attention
Parkinson's disease; Event-related potential; Drug effect; Oddball paradigm; P3 (Vieregge, P. (2) 117)

Automatization
Mental arithmetic; Event-related potential; Practice; Problem size (Pauli, P. (2) 21)

Awake monkey
Superior colliculus; Single-unit activity; Attention; Stimulus meaning; Face (Arendes, L. (2) 65)

C

Calculation
Region-dependent variation; Oxygenation; Hemodynamic; Near-infrared spectrophotometry; Mirror drawing task (Okada, F. (2) 215)

Capsaicin
Open-field behavior; Spatial learning; Active avoidance learning; Retention; Extinction; Rat (Carobi, C. (2) 221)

Cell death
Nervous system; Neural network; Computational model; Learning; Development; Apoptosis (Brown, G.D.A. (2) 71)

Cerebellar atrophy
Event-related potential; NA; N2; P3; Cognition (Tachibana, H. (2) 173)

Cerebral blood flow
Cerebral metabolism; Auditory cortex; Functional imaging; Speech perception; Temporal lobe (Binder, J.R. (2) 31)

Cerebral metabolism
Cerebral blood flow; Auditory cortex; Functional imaging; Speech perception; Temporal lobe (Binder, J.R. (2) 31)

Chick
Memory; Astrocyte; Energy; Metabolism; Oxidative metabolism; Glycolysis; Glycogenolysis; Fluorocitrate; Fluoroacetate; Iodoacetate (O'Dowd, B.S. (2) 93)

Clonidine
Response to novelty; Stimulus seeking behavior; Locus coeruleus; Norepinephrine; Propranolol; $\alpha 2$ Receptor; β Receptor (Sara, S.J. (2) 181)

Cochlear implant
Speech; Auditory cortex; Regional cerebral blood flow; Positron emission tomography (PET) (Naito, Y. (2) 207)

Cognition
Event-related potential; NA; N2; P3; Cerebellar atrophy (Tachibana, H. (2) 173)

Computational model
Cell death; Nervous system; Neural network; Learning; Development; Apoptosis (Brown, G.D.A. (2) 71)

Computer mouse
Learning; Adaptation; Motor control; Visuomotor transformation; Visuomotor discrepancy; Trajectory (Roby-Brami, A. (2) 229)

Cortical localization
MEG; Magnetoencephalogram; Evoked potential; Pain; Electric shock; Somatosensory; Insula; Operculum (Howland, E.W. (2) 165)

D

Dehydroepiandrosterone sulfate
Memory; Neurosteroid; Steroid sulfatase inhibitor; Estrone-3-O-sulfamate (Li, P.-K. (2) 251)

Deterministic chaos
Imagery; Dimension; EEG; Perception (Schupp, H.T. (2) 77)

Development
Cell death; Nervous system; Neural network; Computational model; Learning; Apoptosis (Brown, G.D.A. (2) 71)

Dimension
Imagery; Deterministic chaos; EEG; Perception (Schupp, H.T. (2) 77)

Direction discrimination
Global motion; Middle temporal area; Perceptual learning-psychophysics; Neural network; Hebbian learning model; Radial basis function (Vaina, L.M. (2) 155)

3-D object
Mental rotation; Microgravity; Human (Leone, G. (2) 255)

Drug effect
Auditory selective attention; Parkinson's disease; Event-related potential; Oddball paradigm; P3 (Vieregge, P. (2) 117)

E

EEG
Imagery; Dimension; Deterministic chaos; Perception (Schupp, H.T. (2) 77)

Frontal midline theta activity; EEG analysis; Potential flow; Topography; Moving potential field (Inouye, T. (2) 87)

EEG analysis
EEG; Frontal midline theta activity; Potential flow; Topography; Moving potential field (Inouye, T. (2) 87)

EEG potential
Temporo-parietal lesion; Parietal lesion; Frontal lesion; P3; $P3_b$; Nogo-P3 (Verleger, R. (2) 103)

Electric shock
MEG; Magnetoencephalogram; Evoked potential; Pain; Cortical localization; Somatosensory; Insula; Operculum (Howland, E.W. (2) 165)

Electroencephalographic source mapping (EEG)
Functional imaging; Mental imagery; Human spontaneous activity; Magnetoencephalographic source mapping (MEG); Signal-space projection (SSP); Fast Fourier transform (FFT);

Equivalent current dipole (ECD) (Tesche, C.D. (2) 243)

Energy
Memory; Chick; Astrocyte; Metabolism; Oxidative metabolism; Glycolysis; Glycogenolysis; Fluorocitrate; Fluoroacetate; Iodoacetate (O'Dowd, B.S. (2) 93)

Epileptogenic lesion
Hippocampal event-related potenial; N400/P600; Recognition memory pathway (Guillem, F. (2) 147)

Equivalent current dipole (ECD)
Functional imaging; Mental imagery; Human spontaneous activity; Magnetoencephalographic source mapping (MEG); Electroencephalographic source mapping (EEG); Signal-space projection (SSP); Fast Fourier transform (FFT) (Tesche, C.D. (2) 243)

ERP
Selective attention; Spatial attention; Visual attention; Event-related potential; Luminance; Topography; Human (Johannes, S. (2) 189)

Estrone-3-O-sulfamate
Memory; Neurosteroid; Dehydroepiandrosterone sulfate; Steroid sulfatase inhibitor (Li, P.-K. (2) 251)

Event related potential
Monkey; Social status; Hierarchy; N1; N2; P3 (Pineda, J.A. (2) 1)

Event-related potential
Mental arithmetic; Practice; Automatization; Problem size (Pauli, P. (2) 21)

N400; Face; Priming (Olivares, E. (2) 39)

Auditory selective attention; Parkinson's disease; Drug effect; Oddball paradigm; P3 (Vieregge, P. (2) 117)

Motor cortex; Supplementary motor area; Motor imagery; GO/NO-GO task; Reaction time (Naito, E. (2) 131)

NA; N2; P3; Cerebellar atrophy; Cognition (Tachibana, H. (2) 173)

Selective attention; Spatial attention; Visual attention; ERP; Luminance; Topography; Human (Johannes, S. (2) 189)

Event-related potential (ERP)
P300; Handedness (Alexander, J.E. (2) 277)

Evoked potential
MEG; Magnetoencephalogram; Pain; Electric shock; Cortical localization; Somatosensory; Insula; Operculum (Howland, E.W. (2) 165)

Extinction
Capsaicin; Open-field behavior; Spatial learning; Active avoidance learning; Retention; Rat (Carobi, C. (2) 221)

F

Face
Event-related potential; N400; Priming (Olivares, E. (2) 39)

Superior colliculus; Awake monkey; Single-unit activity; Attention; Stimulus meaning (Arendes, L. (2) 65)

Fast Fourier transform (FFT)
Functional imaging; Mental imagery; Human spontaneous activity; Magnetoencephalographic source mapping (MEG); Electroencephalographic source mapping (EEG); Signal-space projection (SSP); Equivalent current dipole (ECD) (Tesche, C.D. (2) 243)

Fluoroacetate
Memory; Chick; Astrocyte; Energy; Metabolism; Oxidative metabolism; Glycolysis; Glycogenolysis; Fluorocitrate; Iodoacetate (O'Dowd, B.S. (2) 93)

Fluorocitrate
Memory; Chick; Astrocyte; Energy; Metabolism; Oxidative metabolism; Glycolysis; Glycogenolysis; Fluoroacetate; Iodoacetate (O'Dowd, B.S. (2) 93)

Frontal lesion
EEG potential; Temporo-parietal lesion; Parietal lesion; P3; $P3_b$; Nogo-P3 (Verleger, R. (2) 103)

Frontal lobe
Novelty P3; Target P3; Scalp topography; Aging (Friedman, D. (2) 49)

Frontal midline theta activity
EEG; EEG analysis; Potential flow; Topography; Moving potential field (Inouye, T. (2) 87)

Functional imaging
Cerebral blood flow; Cerebral metabolism; Auditory cortex; Speech perception; Temporal lobe (Binder, J.R. (2) 31)

Mental imagery; Human spontaneous activity; Magnetoencephalographic source mapping (MEG); Electroencephalographic source mapping (EEG); Signal-space projection (SSP); Fast Fourier transform (FFT); Equivalent current dipole (ECD) (Tesche, C.D. (2) 243)

G

Global motion
Direction discrimination; Middle temporal area; Perceptual learning-psychophysics; Neural network; Hebbian learning model; Radial basis function (Vaina, L.M. (2) 155)

Glycogenolysis
Memory; Chick; Astrocyte; Energy; Metabolism; Oxidative metabolism; Glycolysis; Fluorocitrate; Fluoroacetate; Iodoacetate (O'Dowd, B.S. (2) 93)

Glycolysis
Memory; Chick; Astrocyte; Energy; Metabolism; Oxidative metabolism; Glycogenolysis; Fluorocitrate; Fluoroacetate; Iodoacetate (O'Dowd, B.S. (2) 93)

GO/NO-GO task
Event-related potential; Motor cortex; Supplementary motor area; Motor imagery; Reaction time (Naito, E. (2) 131)

H

Handedness
P300; Event-related potential (ERP) (Alexander, J.E. (2) 277)

Hebbian learning model
Global motion; Direction discrimination; Middle temporal area; Perceptual learning-psychophysics; Neural network; Radial basis function (Vaina, L.M. (2) 155)

Hemodynamic
Region-dependent variation; Oxygenation; Near-infrared spectrophotometry; Mirror drawing task; Calculation (Okada, F. (2) 215)

Heschl's gyrus
Magnetoencephalography; Superior temporal gyrus; Temporal lobe; Auditory evoked field (Reite, M. (2) 13)

Hierarchy
Monkey; Social status; Event related potential; N1; N2; P3 (Pineda, J.A. (2) 1)

Hippocampal event-related potenial
Epileptogenic lesion; N400/P600; Recognition memory pathway (Guillem, F. (2) 147)

Hippocampus
Memory processes; Immediate-early gene; Acquisition; Recall; Hybridization, in situ; Mouse brain; Neuronal plasticity (Bertaina, V. (2) 269)

Human
Selective attention; Spatial attention; Visual attention; Event-related potential; ERP; Luminance; Topography (Johannes, S. (2) 189)

Mental rotation; Microgravity; 3-D object (Leone, G. (2) 255)

Human spontaneous activity
Functional imaging; Mental imagery; Magnetoencephalographic source mapping (MEG); Electroencephalographic source mapping (EEG); Signal-space projection (SSP);

Fast Fourier transform (FFT); Equivalent current dipole (ECD) (Tesche, C.D. (2) 243)

Hybridization, in situ
Memory processes; Immediate-early gene; Hippocampus; Acquisition; Recall; Mouse brain; Neuronal plasticity (Bertaina, V. (2) 269)

I

Imagery
Dimension; Deterministic chaos; EEG; Perception (Schupp, H.T. (2) 77)

Immediate-early gene
Memory processes; Hippocampus; Acquisition; Recall; Hybridization, in situ; Mouse brain; Neuronal plasticity (Bertaina, V. (2) 269)

Insula
MEG; Magnetoencephalogram; Evoked potential; Pain; Electric shock; Cortical localization; Somatosensory; Operculum (Howland, E.W. (2) 165)

Iodoacetate
Memory; Chick; Astrocyte; Energy; Metabolism; Oxidative metabolism; Glycolysis; Glycogenolysis; Fluorocitrate; Fluoroacetate (O'Dowd, B.S. (2) 93)

L

Learning
Cell death; Nervous system; Neural network; Computational model; Development; Apoptosis (Brown, G.D.A. (2) 71)

Adaptation; Motor control; Visuomotor transformation; Visuomotor discrepancy; Trajectory; Computer mouse (Roby-Brami, A. (2) 229)

Locus coeruleus
Response to novelty; Stimulus seeking behavior; Norepinephrine; Clonidine; Propranolol; $\alpha 2$ Receptor; β Receptor (Sara, S.J. (2) 181)

Luminance
Selective attention; Spatial attention; Visual attention; Event-related potential; ERP; Topography; Human (Johannes, S. (2) 189)

M

Magnetoencephalogram
MEG; Evoked potential; Pain; Electric shock; Cortical localization; Somatosensory; Insula; Operculum (Howland, E.W. (2) 165)

Magnetoencephalographic source mapping (MEG)
Functional imaging; Mental imagery; Human spontaneous activity; Electroencephalographic source mapping (EEG); Signal-space projection (SSP); Fast Fourier transform (FFT); Equivalent current dipole (ECD) (Tesche, C.D. (2) 243)

Magnetoencephalography
Superior temporal gyrus; Heschl's gyrus; Temporal lobe; Auditory evoked field (Reite, M. (2) 13)

MEG
Magnetoencephalogram; Evoked potential; Pain; Electric shock; Cortical localization; Somatosensory; Insula; Operculum (Howland, E.W. (2) 165)

Memory
Chick; Astrocyte; Energy; Metabolism; Oxidative metabolism; Glycolysis; Glycogenolysis; Fluorocitrate; Fluoroacetate; Iodoacetate (O'Dowd, B.S. (2) 93)

Neurosteroid; Dehydroepiandrosterone sulfate; Steroid sulfatase inhibitor; Estrone-3-O-sulfamate (Li, P.-K. (2) 251)

Memory processes
Immediate-early gene; Hippocampus; Acquisition; Recall; Hybridization, in situ; Mouse brain; Neuronal plasticity (Bertaina, V. (2) 269)

Mental arithmetic
Event-related potential; Practice; Automatization; Problem size (Pauli, P. (2) 21)

Mental imagery
Functional imaging; Human spontaneous activity; Magnetoencephalographic source mapping (MEG); Electroencephalographic source mapping (EEG); Signal-space projection (SSP); Fast Fourier transform (FFT); Equivalent current dipole (ECD) (Tesche, C.D. (2) 243)

Mental rotation
Microgravity; Human; 3-D object (Leone, G. (2) 255)

Metabolism
Memory; Chick; Astrocyte; Energy; Oxidative metabolism; Glycolysis; Glycogenolysis; Fluorocitrate; Fluoroacetate; Iodoacetate (O'Dowd, B.S. (2) 93)

Microgravity
Mental rotation; Human; 3-D object (Leone, G. (2) 255)

Middle temporal area
Global motion; Direction discrimination; Perceptual learning-psychophysics; Neural network; Hebbian learning model; Radial basis function (Vaina, L.M. (2) 155)

Mirror drawing task
Region-dependent variation; Oxygenation; Hemodynamic; Near-infrared spectrophotometry; Calculation (Okada, F. (2) 215)

Monkey
Social status; Hierarchy; Event related potential; N1; N2; P3 (Pineda, J.A. (2) 1)

Motor control
Learning; Adaptation; Visuomotor transformation; Visuomotor discrepancy; Trajectory; Computer mouse (Roby-Brami, A. (2) 229)

Motor cortex
Event-related potential; Supplementary motor area; Motor imagery; GO/NO-GO task; Reaction time (Naito, E. (2) 131)

Movement related potential; Supplementary motor area; Motor inhibition; Stop signal paradigm; Reaction time (Naito, E. (2) 139)

Motor imagery
Event-related potential; Motor cortex; Supplementary motor area; GO/NO-GO task; Reaction time (Naito, E. (2) 131)

Motor inhibition
Movement related potential; Motor cortex; Supplementary motor area; Stop signal paradigm; Reaction time (Naito, E. (2) 139)

Mouse brain
Memory processes; Immediate-early gene; Hippocampus; Acquisition; Recall; Hybridization, in situ; Neuronal plasticity (Bertaina, V. (2) 269)

Movement related potential
Motor cortex; Supplementary motor area; Motor inhibition; Stop signal paradigm; Reaction time (Naito, E. (2) 139)

Moving potential field
EEG; Frontal midline theta activity; EEG analysis; Potential flow; Topography (Inouye, T. (2) 87)

N

N1
Monkey; Social status; Hierarchy; Event related potential; N2; P3 (Pineda, J.A. (2) 1)

N2
Monkey; Social status; Hierarchy; Event related potential; N1; P3 (Pineda, J.A. (2) 1)

N400
Event-related potential; Face; Priming (Olivares, E. (2) 39)

N2
Event-related potential; NA; P3; Cerebellar atrophy; Cognition (Tachibana, H. (2) 173)

NA
Event-related potential; N2; P3; Cerebellar atrophy; Cognition (Tachibana, H. (2) 173)

Near-infrared spectrophotometry
Region-dependent variation; Oxygenation; Hemodynamic; Mirror drawing task; Calculation (Okada, F. (2) 215)

Nervous system
Cell death; Neural network; Computational model; Learning; Development; Apoptosis (Brown, G.D.A. (2) 71)

Neural network
Cell death; Nervous system; Computational model; Learning; Development; Apoptosis (Brown, G.D.A. (2) 71)

Global motion; Direction discrimination; Middle temporal area; Perceptual learning-psychophysics; Hebbian learning model; Radial basis function (Vaina, L.M. (2) 155)

Neuronal plasticity
Memory processes; Immediate-early gene; Hippocampus; Acquisition; Recall; Hybridization, in situ; Mouse brain (Bertaina, V. (2) 269)

Neurosteroid
Memory; Dehydroepiandrosterone sulfate; Steroid sulfatase inhibitor; Estrone-3-O-sulfamate (Li, P.-K. (2) 251)

Nogo-P3
EEG potential; Temporo-parietal lesion; Parietal lesion; Frontal lesion; P3; $P3_b$ (Verleger, R. (2) 103)

Norepinephrine
Response to novelty; Stimulus seeking behavior; Locus coeruleus; Clonidine; Propranolol; α2 Receptor; β Receptor (Sara, S.J. (2) 181)

Novelty P3
Target P3; Scalp topography; Aging; Frontal lobe (Friedman, D. (2) 49)

N400 / P600
Hippocampal event-related potenial; Epileptogenic lesion; Recognition memory pathway (Guillem, F. (2) 147)

O

Oddball paradigm
Auditory selective attention; Parkinson's disease; Event-related potential; Drug effect; P3 (Vieregge, P. (2) 117)

Open-field behavior
Capsaicin; Spatial learning; Active avoidance learning; Retention; Extinction; Rat (Carobi, C. (2) 221)

Operculum
MEG; Magnetoencephalogram; Evoked potential; Pain; Electric shock; Cortical localization; Somatosensory; Insula (Howland, E.W. (2) 165)

Oxidative metabolism
Memory; Chick; Astrocyte; Energy; Metabolism; Glycolysis; Glycogenolysis; Fluorocitrate; Fluoroacetate; Iodoacetate (O'Dowd, B.S. (2) 93)

Oxygenation
Region-dependent variation; Hemodynamic; Near-infrared spectrophotometry; Mirror drawing task; Calculation (Okada, F. (2) 215)

P

P3
Monkey; Social status; Hierarchy; Event related potential; N1; N2 (Pineda, J.A. (2) 1)

$P3_b$
EEG potential; Temporo-parietal lesion; Parietal lesion; Frontal lesion; P3; Nogo-P3 (Verleger, R. (2) 103)

P3
EEG potential; Temporo-parietal lesion; Parietal lesion; Frontal lesion; $P3_b$; Nogo-P3 (Verleger, R. (2) 103)

Auditory selective attention; Parkinson's disease; Event-related potential; Drug effect; Oddball paradigm (Vieregge, P. (2) 117)

Event-related potential; NA; N2; Cerebellar atrophy; Cognition (Tachibana, H. (2) 173)

P300
Event-related potential (ERP); Handedness (Alexander, J.E. (2) 277)

Pain
MEG; Magnetoencephalogram; Evoked potential; Electric shock; Cortical localization; Somatosensory; Insula; Operculum (Howland, E.W. (2) 165)

Parietal lesion
EEG potential; Temporo-parietal lesion; Frontal lesion; P3; $P3_b$; Nogo-P3 (Verleger, R. (2) 103)

Parkinson's disease
Auditory selective attention; Event-related potential; Drug effect; Oddball paradigm; P3 (Vieregge, P. (2) 117)

Perception
Imagery; Dimension; Deterministic chaos; EEG (Schupp, H.T. (2) 77)

Perceptual learning-psychophysics
Global motion; Direction discrimination; Middle temporal area; Neural network; Hebbian learning model; Radial basis function (Vaina, L.M. (2) 155)

Positron emission tomography (PET)
Cochlear implant; Speech; Auditory cortex; Regional cerebral blood flow (Naito, Y. (2) 207)

Potential flow
EEG; Frontal midline theta activity; EEG analysis; Topography; Moving potential field (Inouye, T. (2) 87)

Practice
Mental arithmetic; Event-related potential; Automatization; Problem size (Pauli, P. (2) 21)

Priming
Event-related potential; N400; Face (Olivares, E. (2) 39)

Problem size
Mental arithmetic; Event-related potential; Practice; Automatization (Pauli, P. (2) 21)

Propranolol
Response to novelty; Stimulus seeking behavior; Locus coeruleus; Norepinephrine; Clonidine; α2 Receptor; β Receptor (Sara, S.J. (2) 181)

R

Radial basis function
Global motion; Direction discrimination; Middle temporal area; Perceptual learning-psychophysics; Neural network; Hebbian learning model (Vaina, L.M. (2) 155)

Rat
Capsaicin; Open-field behavior; Spatial learning; Active avoidance learning; Retention; Extinction (Carobi, C. (2) 221)

Reaction time
Event-related potential; Motor cortex; Supplementary motor area; Motor imagery; GO/NO-GO task (Naito, E. (2) 131)

Movement related potential; Motor cortex; Supplementary motor area; Motor inhibition; Stop signal paradigm (Naito, E. (2) 139)

Recall
Memory processes; Immediate-early gene; Hippocampus; Acquisition; Hybridization, in situ; Mouse brain; Neuronal plasticity (Bertaina, V. (2) 269)

α2 Receptor
Response to novelty; Stimulus seeking behavior; Locus coeruleus; Norepinephrine; Clonidine; Propranolol; β Receptor (Sara, S.J. (2) 181)

β Receptor
Response to novelty; Stimulus seeking behavior; Locus coeruleus; Norepinephrine; Clonidine; Propranolol; α2 Receptor (Sara, S.J. (2) 181)

Recognition memory pathway
Hippocampal event-related potenial; Epileptogenic lesion; N400/P600 (Guillem, F. (2) 147)

Regional cerebral blood flow
Cochlear implant; Speech; Auditory cortex; Positron emission tomography (PET) (Naito, Y. (2) 207)

Region-dependent variation
Oxygenation; Hemodynamic; Near-infrared spectrophotometry; Mirror drawing task; Calculation (Okada, F. (2) 215)

Response to novelty
Stimulus seeking behavior; Locus coeruleus; Norepinephrine; Clonidine; Propranolol; α2 Receptor; β Receptor (Sara, S.J. (2) 181)

Retention
Capsaicin; Open-field behavior; Spatial learning; Active avoidance learning; Extinction; Rat (Carobi, C. (2) 221)

S

Scalp topography
Novelty P3; Target P3; Aging; Frontal lobe (Friedman, D. (2) 49)

Selective attention
Spatial attention; Visual attention; Event-related potential; ERP; Luminance; Topography; Human (Johannes, S. (2) 189)

Signal-space projection (SSP)
Functional imaging; Mental imagery; Human spontaneous activity; Magnetoencephalographic source mapping (MEG); Electroencephalographic source mapping (EEG); Fast Fourier transform (FFT); Equivalent current dipole (ECD) (Tesche, C.D. (2) 243)

Single-unit activity
Superior colliculus; Awake monkey; Attention; Stimulus meaning; Face (Arendes, L. (2) 65)

Social status
Monkey; Hierarchy; Event related potential; N1; N2; P3 (Pineda, J.A. (2) 1)

Somatosensory
MEG; Magnetoencephalogram; Evoked potential; Pain; Electric shock; Cortical localization; Insula; Operculum (Howland, E.W. (2) 165)

Spatial attention
Selective attention; Visual attention; Event-related potential; ERP; Luminance; Topography; Human (Johannes, S. (2) 189)

Spatial learning
Capsaicin; Open-field behavior; Active avoidance learning; Retention; Extinction; Rat (Carobi, C. (2) 221)

Speech
Cochlear implant; Auditory cortex; Regional cerebral blood flow; Positron emission tomography (PET) (Naito, Y. (2) 207)

Speech perception
Cerebral blood flow; Cerebral metabolism; Auditory cortex; Functional imaging; Temporal lobe (Binder, J.R. (2) 31)

Steroid sulfatase inhibitor
Memory; Neurosteroid; Dehydroepiandrosterone sulfate; Estrone-3-O-sulfamate (Li, P.-K. (2) 251)

Stimulus meaning
Superior colliculus; Awake monkey; Single-unit activity; Attention; Face (Arendes, L. (2) 65)

Stimulus seeking behavior
Response to novelty; Locus coeruleus; Norepinephrine; Clonidine; Propranolol; α2 Receptor; β Receptor (Sara, S.J. (2) 181)

Stop signal paradigm
Movement related potential; Motor cortex; Supplementary motor area; Motor inhibition; Reaction time (Naito, E. (2) 139)

Superior colliculus
Awake monkey; Single-unit activity; Attention; Stimulus meaning; Face (Arendes, L. (2) 65)

Superior temporal gyrus
Magnetoencephalography; Heschl's gyrus; Temporal lobe; Auditory evoked field (Reite, M. (2) 13)

Supplementary motor area
Event-related potential; Motor cortex; Motor imagery; GO/NO-GO task; Reaction time (Naito, E. (2) 131)

Movement related potential; Motor cortex; Motor inhibition; Stop signal paradigm; Reaction time (Naito, E. (2) 139)

T

Target P3
Novelty P3; Scalp topography; Aging; Frontal lobe (Friedman, D. (2) 49)

Temporal lobe
Magnetoencephalography; Superior temporal gyrus; Heschl's gyrus; Auditory evoked field (Reite, M. (2) 13)

Cerebral blood flow; Cerebral metabolism; Auditory cortex; Functional imaging; Speech perception (Binder, J.R. (2) 31)

Temporo-parietal lesion
EEG potential; Parietal lesion; Frontal lesion; P3; $P3_b$; Nogo-P3 (Verleger, R. (2) 103)

Topography
EEG; Frontal midline theta activity; EEG analysis; Potential flow; Moving potential field (Inouye, T. (2) 87)

Selective attention; Spatial attention; Visual attention; Event-related potential; ERP; Luminance; Human (Johannes, S. (2) 189)

Trajectory
Learning; Adaptation; Motor control; Visuomotor transformation; Visuomotor discrepancy; Computer mouse (Roby-Brami, A. (2) 229)

V

Visual attention
Selective attention; Spatial attention; Event-related potential; ERP; Luminance; Topography; Human (Johannes, S. (2) 189)

Visuomotor discrepancy
Learning; Adaptation; Motor control; Visuomotor transformation; Trajectory; Computer mouse (Roby-Brami, A. (2) 229)

Visuomotor transformation
Learning; Adaptation; Motor control; Visuomotor discrepancy; Trajectory; Computer mouse (Roby-Brami, A. (2) 229)

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BRAIN RESEARCH

AUTHOR AND SUBJECT INDEXES

CONTENTS

Introduction	v
Brain Research Author Index	1
Brain Research Subject Index	61
Developmental Brain Research Author Index	233
Developmental Brain Research Subject Index	245
Molecular Brain Research Author Index	275
Molecular Brain Research Subject Index	291
Brain Research Reviews Author Index	329
Brain Research Reviews Subject Index	333
Cognitive Brain Research Author Index	341
Cognitive Brain Research Subject Index	347

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